



NASA SP-7039(18)

Section 2

Indexes

(NASA-SP-7039(18)) NASA PATENT ABSTRACTS
BIBLIOGRAPHY. A CONTINUING BIBLIOGRAPHY.
SECTION 2: INDEXES (National Aeronautics
and Space Administration) 726 p HC \$12.50

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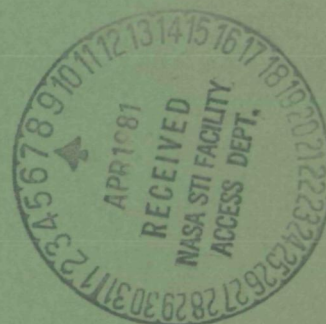
NASA

PATENT ABSTRACTS BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JANUARY 1981



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04)	N69-20701-N73-33931
NASA SP-7039(12)	N74-10001-N77-34042
NASA SP-7039(13)	N78-10001-N78-22018
NASA SP-7039(14)	N78-22019-N78-34034
NASA SP-7039(15)	N79-10001-N79-21993
NASA SP-7039(16)	N79-21994-N79-34158
NASA SP-7039(17)	N80-10001-N80-22254
NASA SP-7039(18)	N80-22255-N80-34339

NASA SP-7039(18)

**Section 2
Indexes**

NASA

**PATENT
ABSTRACTS
BIBLIOGRAPHY**

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and December 1980. This issue supersedes all previous Index Sections.



Scientific and Technical Information Office
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

JANUARY 1981
Washington, D.C.

This supplement is available as NTISUB/111/093 from the National Technical Information Service (NTIS), Springfield, Virginia 22161 at the price of \$12.50 domestic; \$25.50 foreign for standing orders. Please note: Standing orders are subscriptions which do not terminate at the end of a year, as do regular subscriptions, but continue indefinitely unless specifically terminated by the subscriber.



INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since May 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 120 citations published in this issue of the Abstract Section cover the period July 1980 through December 1980. The Index Section references approximately 3900 citations covering the period May 1969 through December 1980.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue incorporates the 1975 *STAR* category revisions which include 10 major subdivisions divided into 74 specific categories and one general category/division. (See Table of Contents for the scope note of each category under which are grouped appropriate NASA inventions.) This new scheme was devised in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and a key illustration taken from the patent or application for patent drawing. Entries are arranged in subject category in order of the ascending NASA Accession Number originally assigned in *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

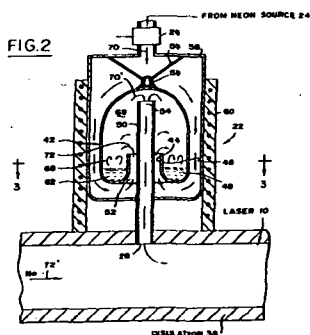
NASA Accession Number
NASA Case Number
Inventor's Name

Title of Invention
 U.S. Patent Application Serial Number
 U.S. Patent Number (for issued patents only)
 U.S. Patent Office Classification Number(s)
 (for issued patents only)

These data elements in the citation of the abstract as depicted in the Typical Citation and Abstract reproduced below and are also used in the several indexes.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED DOCUMENT		AVAILABLE ON MICROFICHE
NASA ACCESSION NUMBER	N80-20574*#	SOURCE
TITLE	National Aeronautics and Space Administration. Pasadena Office, Calif.	
INVENTOR	METHOD AND APPARATUS FOR CONVECTION CONTROL OF METALLIC HALIDE VAPOR DENSITY IN A METALLIC HALIDE LASER Patent Application	
NASA CASE NUMBER	Thomas J. Pivrotto, inventor (to NASA) (JPL) Filed 14 Mar. 1980 14 p (Contract NAS7-100)	US PATENT APPLICATIONS SERIAL NUMBER
ABSTRACT	(NASA-Case-NPO-15021-1; US-Patent-Appl-SN-130496) Avail: NTIS HC A02/MF A01 CSCL 20E	AVAILABILITY
	A method and apparatus for convection control of metallic halide vapor density in a metallic halide laser are described. A reservoir containing copper chloride is heated so that the copper chloride is maintained in a liquid form. The apparatus includes a means for flowing a buffer gas (neon) over the liquid copper chloride to provide a mixture of copper chloride vapor and neon above the liquid copper chloride. A conduit for providing fluid communication between the reservoir containing the copper chloride vapor/neon mixture and the laser is also included. The copper chloride vapor density in the laser is related to the liquid copper chloride temperature and the neon flow rate through the reservoir. Neon is also provided directly to the laser in order to provide a further means of controlling the copper chloride vapor density in the laser.	COSATI CODE
	NASA	



KEY ILLUSTRATION

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes which are cross-indexed and are useful in locating a single invention or groups of inventions.

Each of the five indexes utilizes basic data elements: (1) Subject Category Number, (2) NASA Accession Number, and (3) NASA Case Number, in addition to other specific index terms.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the NASA Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the NASA Accession Number.

Accession Number Index: Lists all inventions in order of ascending NASA Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible when using the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (i) use the Subject Category Number to locate the Subject Category and (ii) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (does not include applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated inventions(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

PUBLIC AVAILABILITY OF COPIES OF PATENTS AND PATENT APPLICATIONS

Copies of U.S. patents may be purchased directly from the U.S. Patent and Trademark Office, Washington, D.C. 20231, for fifty cents a copy. When ordering patents, the U.S. Patent Number should be used, and payment must be remitted in advance, preferably by money order or check payable to the Commissioner of Patents and Trademarks. Prepaid purchase coupons for ordering are also available from the Patent and Trademark Office.

NASA *patent application specifications* are sold in paper copy by the National Technical Information Service at price code A02 (\$5.00 domestic; \$10.00 foreign). Microfiche are sold at price code A01 (\$3.50 domestic; \$7.00 foreign). The US-Patent-Appl-SN-number should be used in ordering either paper copy or microfiche from NTIS.

LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Assistant General Counsel for Patent Matters, Code GP-4, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table. Formal application of license must be submitted on the NASA Form, Application for NASA Patent License, which is available upon request from any NASA Patent Counsel.

**NASA Case
Number
Prefix Letters**

Address of Cognizant

NASA Patent Counsel

ARC-xxxxx
XAR-xxxxx

Ames Research Center
Mail Code: 200-11A
Moffett Field, California 94035
Telephone: (415)965-5104

ERC-xxxxx
XER-xxxxx
HQN-xxxxx
XHQ-xxxxx

NASA Headquarters
Mail Code: GP-4
Washington, D.C. 20546
Telephone: (202)755-3954

GSC-xxxxx
XGS-xxxxx

Goddard Space Flight Center
Mail Code: 204
Greenbelt, Maryland 20771
Telephone: (301)344-7351

KSC-xxxxx
XKS-xxxxx

John F. Kennedy Space Center
Mail Code: AA-PAT
Kennedy Space Center, Florida 32899
Telephone: (305)867-2544

LAR-xxxxx
XLA-xxxxx

Langley Research Center
Mail Code: 456
Hampton, Virginia 23365
Telephone: (804)827-3725

LEW-xxxxx
XLE-xxxxx

Lewis Research Center
Mail Code: 500-311
21000 Brookpark Road
Cleveland, Ohio 44135
Telephone: (216)433-6346

MSC-xxxxx
XMS-xxxxx

Lyndon B. Johnson Space Center
Mail Code: AM
Houston, Texas 77058
Telephone: (713)483-4871

MFS-xxxxx
XMF-xxxxx

George C. Marshall Space Flight
Center
Mail Code: CC01
Huntsville, Alabama 35812
Telephone: (205)453-0020

NPO-xxxxx
XNP-xxxxx
FRC-xxxxx
XFR-xxxxx
WOO-xxxxx

NASA Resident Legal Office
Mail Code: 180-601
4800 Oak Grove Drive
Pasadena, California 91103
Telephone: (213)354-2700

PATENT LICENSING REGULATIONS

Title 14—AERONAUTICS AND SPACE

Chapter V—National Aeronautics and Space Administration

PART 1245—PATENTS

Subpart 2—Patent Licensing Regulations

1. Subpart 2 is revised in its entirety as follows:

Sec.	
1245.200	Scope of subpart.
1245.201	Definitions.
1245.202	Basic considerations.
1245.203	Licenses for practical application of inventions.
1245.204	Other licenses.
1245.205	Publication of NASA inventions available for license.
1245.206	Application for nonexclusive license.
1245.207	Application for exclusive license.
1245.208	Processing applications for license.
1245.209	Royalties and fees.
1245.210	Reports.
1245.211	Revocation of licenses.
1245.212	Appeals.
1245.213	Litigation.
1245.214	Address of communications.

AUTHORITY: The provisions of this Subpart 2 issued under 42 U.S.C. 2457, 2478(b)(3).

§ 1245.200 Scope of subpart.

This Subpart 2 prescribes the terms, conditions, and procedures for licensing inventions covered by U.S. patents and patent applications for which the Administrator of the National Aeronautics and Space Administration holds title on behalf of the United States.

§ 1245.201 Definitions.

For the purpose of this subpart, the following definitions apply:

(a) "Invention" means an invention covered by a U.S. patent or patent application for which the Administrator of NASA holds title on behalf of the United States and which is designated by the Administration as appropriate for the grant of license(s) in accordance with this subpart.

(b) "To practice an invention" means to make or have made, use or have used, sell or have sold, or otherwise dispose of according to law any machine, article of manufacture or composition of matter physically embodying the invention, or to use or have used the process or method comprising the invention.

(c) "Practical application" means the manufacture in the case of a composition of matter or product, the use in the case of a process, or the operation in the case of a machine, under such conditions as to establish that the invention is being utilized and that its benefits are reasonably accessible to the public.

(d) "Special invention" means any invention designated by the NASA Assistant General Counsel for Patent Matters to be subject to short-form licensing procedures. An invention may be designated as a special invention when a determination is made that:

(1) Practical application has occurred and is likely to continue for the life of

the patent and for which an exclusive license is not in force, or

(2) The public interest would be served by the expeditious granting of a nonexclusive license for practice of the invention by the public.

(e) The "Administrator" means the Administrator of the National Aeronautics and Space Administration, or his designee.

(f) "Government" means the Government of the United States of America.

(g) The "Inventions and Contributions Board" means the NASA Inventions and Contributions Board established by the Administrator of NASA within the Administration in accordance with section 305 of the National Aeronautics and Space Act of 1958 as amended (42 U.S.C. 2457).

§ 1245.202 Basic considerations.

(a) Much of the new technology resulting from NASA sponsored research and development in aeronautical and space activities has application in other fields. NASA has special authority and responsibility under the National Aeronautics and Space Act of 1958, as amended (42 U.S.C. 2451), to provide for the widest practical dissemination and utilization of this new technology. In addition, NASA has been given unique requirements to protect the inventions resulting from NASA activities and to promulgate licensing regulations to encourage commercial use of these inventions.

(b) NASA-owned inventions will best serve the interests of the United States when they are brought to practical application in the shortest time possible. Although NASA encourages the non-exclusive licensing of its inventions to promote competition and achieve their widest possible utilization, the commercial development of certain inventions calls for a substantial capital investment which private manufacturers may be unwilling to risk under a nonexclusive license. It is the policy of NASA to seek exclusive licensees when such licenses will provide the necessary incentive to the licensee to achieve early practical application of the invention.

(c) The Administrator, in determining whether to grant an exclusive license, will evaluate all relevant information submitted by applicants and all other persons and will consider the necessity for further technical and market development of the invention, the capabilities of prospective licensees, their proposed plans to undertake the required investment and development, the impact on competitors, and the benefits of the license to the Government and to the public. Preference for exclusive license shall be given to U.S. citizens or companies who intend to manufacture or use, in the case of a process, the invention in the United States of America, its territories and possessions. Consideration may also be given to assisting small businesses and minority business enterprises, as well as economically depressed, low income and labor surplus areas.

(d) All licenses for inventions shall

be by express written instruments. No license shall be granted either expressly or by implication, for a NASA invention except as provided for in §§ 1245.203 and 1245.204 and in any existing or future treaty or agreement between the United States and any foreign government.

(e) Licenses for inventions covered by NASA-owned foreign patents and patent applications shall be granted in accordance with the NASA Foreign Patent Licensing Regulations (§ 1245.4).

§ 1245.203 Licenses for practical application of inventions.

(a) *General.* As an incentive to encourage practical application of inventions, licenses will be granted to responsible applicants according to the circumstances and conditions set forth in this section.

(b) *Nonexclusive licenses.* (1) Each invention will be made available to responsible applicants for nonexclusive, revocable licensing in accordance with § 1245.206, consistent with the provisions of any existing exclusive license.

(2) The duration of the license shall be for a period as specified in the license.

(3) The license shall require the licensee to achieve the practical application of the invention and to then practice the invention for the duration of the license.

(4) The license may be granted for all or less than all fields of use of the invention and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(5) The license shall extend to the subsidiaries and affiliates of the licensee and shall be nonassignable without approval of the Administrator, NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(c) *Short-form nonexclusive licenses.* A nonexclusive, revocable license for a special invention, as defined in § 1245.201 (d), shall be granted upon written request, to any applicant by the Patent Counsel of the NASA Installation having cognizance of the invention.

(d) *Exclusive licenses.* (1) A limited exclusive license may be granted on an invention available for such licensing provided that:

(i) The Administrator has determined that: (a) The invention has not been brought to practical application by a nonexclusive licensee in the fields of use or in the geographical locations covered by the application for the exclusive license, (b) practical application of the invention in the fields of use or geographical locations covered by the application for the exclusive license is not likely to be achieved expeditiously by the further funding of the invention by the Government or under a nonexclusive license requested by any applicant pursuant to these regulations, and (c) the exclusive license will provide the necessary incentive to the licensee to achieve the practical application of the invention; and

(ii) Either a notice pursuant to

PATENT LICENSING REGULATIONS

§ 1245.205 Listing the invention as available for licensing has been published in the FEDERAL REGISTER for at least 9 months; or a patent covering the invention has been issued for at least 6 months. However, a limited exclusive license may be granted prior to the periods specified above if the Administrator determines that the public interest will best be served by the earlier grant of an exclusive license.

(2) The license may be granted for all or less than all fields of use of the invention, and throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(3) The exclusive period of the license shall be negotiated, but shall be for less than the terminal portion of the patent, and shall be related to the period necessary to provide a reasonable incentive to invest the necessary risk capital.

(4) The license shall require the licensee to practice the invention within a period specified in the license and then to achieve practical application of the invention.

(5) The license shall require the licensee to expend a specified minimum sum of money and/or to take other specified actions, within indicated period(s) after the effective date of the license, in an effort to achieve practical application of the invention.

(6) The license shall be subject to at least an irrevocable royalty-free right of the Government of the United States to practice and have practiced the invention throughout the world by or on behalf of the Government of the United States and on behalf of any foreign government pursuant to any existing or future treaty or agreement with the United States.

(7) The license may reserve to the Administrator, NASA, under the following circumstances, the right to require the granting of a sublicense to responsible applicant(s) on terms that are considered reasonable by the Administrator, taking into consideration the current royalty rates under similar patents and other pertinent facts: (i) To the extent that the invention is required for public use by Government regulation, or (ii) as may be necessary to fulfill health or safety needs, or (iii) for other purposes stipulated in the license.

(8) The license shall be nontransferable except to the successor of that part of the licensee's business to which the invention pertains.

(9) Subject to the approval of the Administrator, the licensee may grant sublicenses under the license. Each sublicense granted by an exclusive licensee shall make reference to and shall provide that the sublicense is subject to the terms of the exclusive license including the rights retained by the Government under the exclusive license. A copy of each sublicense shall be furnished to the Administrator.

(10) The license may be subject to such other reservations as may be in the public interest.

§ 1245.204 Other licenses.

(a) *License to contractor.* There is

hereby granted to the contractor reporting an invention made in the performance of work under a contract of NASA in the manner specified in section 305(a)

(1) or (2) of the National Aeronautics and Space Act of 1958 as amended (42 U.S.C. 2457(a) (1) or (2)), a revocable, nonexclusive, royalty-free license for the practice of such invention, together with the right to grant sublicenses of the same scope to the extent the contractor was legally obligated to do so at the time the contract was awarded. Such license and right is nontransferable except to the successor of that part of the contractor's business to which the invention pertains.

(b) *Miscellaneous licenses.* Subject to any outstanding licenses, nothing in this subpart 2 shall preclude the Administrator from granting other licenses for inventions, when he determines that do so would provide for an equitable distribution of rights. The following exemplify circumstances wherein such licenses may be granted:

(1) In consideration of the settlement of an interference;

(2) In consideration of a release of a claim of infringement; or

(3) In exchange for or as part of the consideration for a license under adversely held patent(s).

§ 1245.205 Publication of NASA inventions available for license.

(a) A notice will be periodically published in the FEDERAL REGISTER listing inventions available for licensing. Abstracts of the inventions will also be published in the NASA Scientific and Technical Aerospace Reports (STAR) and other NASA publications.

(b) Copies of pending patent applications for inventions abstracted in STAR may be purchased from the National Technical Information Service, Springfield, Va. 22161.

§ 1245.206 Application for nonexclusive license.

(a) *Submission of application.* An application for nonexclusive license under § 1245.203(b) or a short-form nonexclusive license for special inventions under § 1245.203(c) shall be addressed to the NASA Patent Counsel of the NASA installation having cognizance over the NASA invention for which a license is desired or to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for nonexclusive license.* An application for nonexclusive license under § 1245.203(b) shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number of patent number, title and date, if known;

(2) Name and address of the person, company or organization applying for license and whether the applicant is a U.S. citizen or a U.S. corporation;

(3) Name and address of representative of applicant to whom correspondence should be sent;

(4) Nature and type of applicant's business;

(5) Number of employees;

(6) Purpose for which license is desired;

(7) A statement that contains the applicant's best knowledge of the extent to which the invention is being practiced by private industry and the Government;

(8) A description of applicant's capability and plan to undertake the development and marketing required to achieve the practical application of the invention, including the geographical location where the applicant plans to manufacture or use, in the case of a process, the invention; and

(9) A statement indicating the minimum term of years the applicant desires to be licensed.

(c) *Contents of an application for a short-form nonexclusive license.* An application for a short-form nonexclusive license under § 1245.203(c) for a special invention shall include:

(1) Identification of invention for which license is desired, including the NASA patent case number, patent application serial number or patent number, title and date, if known;

(2) Name and address of company or organization applying for license; and

(3) Name and address of representative of applicant to whom correspondence should be sent.

§ 1245.207 Application for exclusive license.

(a) *Submission of application.* An application for exclusive license under § 1245.203(d) may be submitted to NASA at any time. An application for exclusive license shall be addressed to the NASA Assistant General Counsel for Patent Matters.

(b) *Contents of an application for exclusive license.* In addition to the requirements set forth in § 1245.206(b), the application for an exclusive license shall include:

(1) Applicant's status, if any, in any one or more of the following categories:

(i) Small business firm;

(ii) Minority business enterprise;

(iii) Location in a surplus labor area;

(iv) Location in a low-income urban area; and

(v) Location in an area designed by the Government as economically depressed.

(2) A statement indicating the time, expenditure, and other acts which the applicant considers necessary to achieve practical application of the invention, and the applicant's offer to invest that sum and to perform such acts if the license is granted;

(3) A statement whether the applicant would be willing to accept a license for all or less than all fields of use of the invention throughout the United States of America, its territories and possessions, Puerto Rico, and the District of Columbia, or in any lesser geographic portion thereof.

(4) A statement indicating the amount of royalty fees or other consideration, if any, the applicant would be willing to pay the Government for the exclusive license; and

(5) Any other facts which the applicant believes to show it to be in the interests of the United States of America for the Administrator to grant an exclusive license rather than a nonexclusive li-

PATENT LICENSING REGULATIONS

cense and that such an exclusive license should be granted to the applicant.

§ 1245.208 Processing applications for license.

(a) *Initial review.* Applications for nonexclusive and exclusive licenses under §§ 1245.206 and 1245.207 will be reviewed by the Patent Counsel of the NASA Installation having cognizance for the invention and the NASA Assistant General Counsel for Patent Matters, to determine the conformity and appropriateness of the application for license and the availability of the specific invention for the license requested. The Assistant General Counsel for Patent Matters will forward all applications for license conforming to §§ 1245.206(b) and 1245.207(b) to the NASA Inventions and Contributions Board when the invention is available for consideration of the requested license. Prior to forwarding applications for exclusive licenses to the Inventions and Contributions Board, notice in writing will be given to each nonexclusive licensee for the specific invention advising of the receipt of the application for the exclusive license and providing each nonexclusive licensee with a 30-day period for submitting either evidence that practical application of the invention has occurred or is about to occur or, an application for an exclusive license for the invention.

(b) *Recommendations of Inventions and Contributions Board.* The Inventions and Contributions Board shall, in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, evaluate all applications for license forwarded by the Assistant General Counsel for Patent Matters. Based upon the facts presented to the Inventions and Contributions Board in the application and any other facts in its possession, the Inventions and Contributions Board shall recommend to the Administrator: (1) Whether a nonexclusive or exclusive license should be granted, (2) the identity of the licensee, and (3) any special terms or conditions of the license.

(c) *Determination of Administrator and grant of nonexclusive licenses.* The Administrator shall review the recommendations of the Inventions and Contributions Board and shall determine whether to grant the nonexclusive license as recommended by the Board. If the Administrator determines to grant the license, the license will be granted upon the negotiation of the appropriate terms and conditions of the Office of General Counsel.

(d) *Determination of Administrator and grant of exclusive licenses—(1) Notice.* If the Administrator determines that the best interest of the United States will be served by the granting of an exclusive license in accordance with the basic considerations set forth in §§ 1245.202 and 1245.203, a notice shall be published in the FEDERAL REGISTER announcing the intent to grant the exclusive license, the identification of the invention, special terms or conditions of the proposed license, and a statement that NASA will grant the exclusive license unless within 30 days of the publication of such notice the Inventions and Contributions Board receives in writing

any of the following together with supporting documentation:

(i) A statement from any person setting forth reasons why it would not be in the best interest of the United States to grant the proposed exclusive license; or

(ii) An application for a nonexclusive license under such invention, in accordance with § 1245.206(b), in which applicant states that he has already brought or is likely to bring the invention to practical application within a reasonable period.

The Inventions and Contributions Board shall, upon receipt of a written request within the 30 days' notice period, grant an extension of 30 days for the submission of the documents designated above.

(2) *Recommendation of Inventions and Contributions Board.* Upon the expiration of the period required by subparagraph (1) of this paragraph, the Board shall review all written responses to the notice and shall then recommend to the Administrator whether to grant the exclusive license as the Board initially recommended or whether a different form of license, if any, should instead be granted.

(3) *Grant of exclusive licenses.* The Administrator shall review the Board's recommendation and shall determine if the interest of the United States would best be served by the grant of an exclusive license as recommended by the Board. If the Administrator determines to grant the exclusive license, the license will be granted upon the negotiation of the appropriate terms and conditions by the Office of General Counsel.

§ 1245.209 Royalties and fees.

(a) Normally, a nonexclusive license for the practical application of an invention granted to a U.S. citizen or company will not require the payment of royalties; however, NASA may require other consideration.

(b) An exclusive license for an invention may require the payment of royalties, fees or other consideration when the licensing circumstances and the basic considerations in § 1245.202, considered together, indicate that it is in the public interest to do so.

§ 1245.210 Reports.

A license shall require the licensee to submit periodic reports of his efforts to work the invention. The reports shall contain information within his knowledge, or which he may acquire under normal business practice, pertaining to the commercial use that is being made of the invention and such other information which the Administrator may determine pertinent to the licensing program and which is specified in the license.

§ 1245.211 Revocation of licenses.

(a) Any license granted pursuant to § 1245.203 may be revoked, either in part or in its entirety, by the Administrator if in his opinion the licensee at any time shall fail to use adequate efforts to bring to or achieve practical application of the invention in accordance with the terms of the license, or if the licensee at any

time shall default in making any report required by the license, or shall make any false report, or shall commit any breach of any covenant or agreement therein contained, and shall fail to remedy any such default, false report, or breach within 30 days after written notice, or if the patent is deemed unenforceable either by the Attorney General or a final decision of a U.S. court.

(b) Any license granted pursuant to § 1245.204(a) may be revoked, either in part or in its entirety, by the Administrator if in his opinion such revocation is necessary to achieve the earliest practical application of the invention pursuant to an application for exclusive license submitted in accordance with § 1245.207, or the licensee at any time shall breach any covenant or agreement contained in the license, and shall fail to remedy any such breach within 30 days after written notice thereof.

(c) Before revoking any license granted pursuant to this Subpart 2 for any cause, there will be furnished to the licensee a written notice of intention to revoke the license, and the licensee will be allowed 30 days after such notice in which to appeal and request a hearing before the Inventions and Contributions Board on the question of revocation. After a hearing, the Inventions and Contributions Board shall transmit to the Administrator the record of proceedings, its findings of fact, and its recommendation whether the license should be revoked either in part or in its entirety. The Administrator shall review the recommendation of the Board and determine whether to revoke the license in part or in its entirety. Revocation of a license shall include revocation of all sublicenses which have been granted.

§ 1245.212 Appeals.

Any person desiring to file an appeal pursuant to § 1245.211(c) shall address the appeal to Chairman, Inventions and Contributions Board. Any person filing an appeal shall be afforded an opportunity to be heard before the Inventions and Contributions Board, and to offer evidence in support of his appeal. The procedures to be followed in any such matter shall be determined by the Administrator. The Board shall make findings of fact and recommendations with respect to disposition of the appeal. The decision on the appeal shall be made by the Administrator, and such decision shall be final and conclusive, except on questions of law, unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence.

§ 1245.213 Litigation.

An exclusive licensee shall be granted the right to sue at his own expense any party who infringes the rights set forth in his license and covered by the licensed patent. The licensee may join the Government, upon consent of the Attorney General, as a party complainant in such suit, but without expense to the Government and the licensee shall pay costs and any final judgment or decree that may be rendered against the Govern-

PATENT LICENSING REGULATIONS

ment in such suit. The Government shall also have an absolute right to intervene in any such suit at its own expense. The licensee shall be obligated to promptly furnish to the Government, upon request, copies of all pleadings and other papers filed in any such suit and of evidence adduced in proceedings relating to the licensed patent including, but not limited to, negotiations for settlement and agreements settling claims by a licensee based on the licensed patent, and all other books, documents, papers, and

records pertaining to such suit. If, as a result of any such litigation, the patent shall be declared invalid, the licensee shall have the right to surrender his license and be relieved from any further obligation thereunder.

§ 1245.214 Address of communications.

(a) Communications to the Assistant General Counsel for Patent Matters in accordance with §§ 1245.206 and 1245.207 and requests for information concerning licenses for NASA inventions should be

addressed to the Assistant General Counsel for Patent Matters, Code GP, National Aeronautics and Space Administration, Washington, D.C. 20546.

(b) Communications to the Inventions and Contributions Board in accordance with §§ 1245.208, 1245.211, and 1245.212 should be addressed to Chairman, Inventions and Contributions Board, National Aeronautics and Space Administration, Washington, D.C. 20546.

Effective date. The regulations set forth in this subpart 2 are effective April 1, 1972.

JAMES C. FLETCHER,
Administrator.

FOREIGN PATENT LICENSING REGULATIONS

Selected NASA inventions are also available for licensing in countries other than the United States in accordance with the NASA Foreign Patent Licensing Regulation (14 C.F.R. 1245.4), a copy of which is available from any NASA Patent Counsel. For abstracts of NASA-owned inventions available for licensing in countries other than the United States, see NASA SP-7038, "Significant NASA Inventions Available for Licensing in Countries Other Than the United States." A copy of this NASA publication is available from NASA Headquarters, Code GP-4, Washington, D.C., 20546.

Subject Categories

(1969 - 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft (e.g., ground effect machines, STOL, and VTOL); flight tests; operating problems (e.g., sonic boom); safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace, medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences

06 Chemistry

Includes chemical analysis and identification (e.g., spectroscopy). For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts, e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities (e.g., rocket engine test stands, shock tubes, and wind tunnels); test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gages; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials (e.g., plastics); and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics, 20 Meteorology, and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic re-

search see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics, and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Section 1 • Abstracts

Subject Categories (1974 -)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Spacecraft Communications, Command and Tracking* and *32 Communications*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and on-board auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tube facilities; and engine test blocks.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbit and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; manned orbital laboratories; reusable vehicles; and space stations.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and rescue techniques.

For related information see also *03 Air Transportation and Safety* and *85 Urban Technology and Transportation*.

17 SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes spacecraft thermal and environmental control; and attitude control.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance* and *39 Structural Mechanics*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g., rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; and propellants and fuels.

23 CHEMISTRY AND MATERIALS (GENERAL)

Includes biochemistry and organic chemistry.

24 COMPOSITE MATERIALS

Includes laminates.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters, and oxidizers; storage and handling; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

ENGINEERING

Includes engineering (general); communications; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; and cryogenics.

32 COMMUNICATIONS

Includes land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Spacecraft Communications, Command and Tracking*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer; and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gages; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (non-power); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells and batteries; global sources of energy; fossil fuels; geophysical conversion; hydroelectric power; and wind power.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *85 Urban Technology and Transportation*.

45 ENVIRONMENT POLLUTION

Includes air, noise, thermal and water pollution; environment monitoring; and contamination control.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic and physical oceanography; and marine resources.

LIFE SCIENCES

Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and planetary biology.

51 LIFE SCIENCES (GENERAL)

Includes genetics.

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and weightlessness.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

55 PLANETARY BIOLOGY

Includes exobiology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes computer graphics and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, and algorithms.

62 COMPUTER SYSTEMS

Includes computer networks.

63 CYBERNETICS

Includes feedback and control theory.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For geophysics see *46 Geophysics*. For astrophysics see *90 Astrophysics*. For solar physics see *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law and political science; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information storage and retrieval technology; micrography; and library science.

For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW AND POLITICAL SCIENCE

Includes space law; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio and gamma-ray astronomy; celestial mechanics; and astrometry.

90 ASTROPHYSICS

Includes cosmology; and interstellar and interplanetary gases and dust.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights.

For spacecraft design see *18 Spacecraft Design, Testing and Performance*. For space stations see *15 Launch Vehicles and Space Vehicles*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

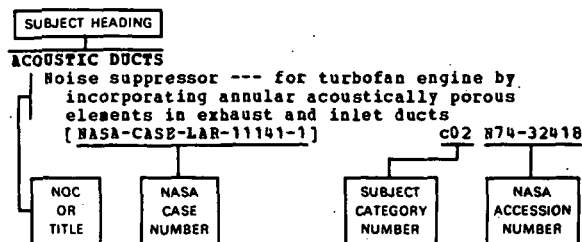
99 GENERAL

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Section 2

Typical Subject Index Listing



The subject heading is the key to the subject content of the document. A brief description of the document, e.g., title, title plus a title extension, or Notation of Content (NOC), is included for each subject entry to indicate the subject heading context: these descriptions are arranged under each subject heading in ascending accession number order. The NASA Case Number serves as the prime access number to the patent documents. The Subject Category Number indicates the category in Section 1 (Abstracts) in which the patent citation and abstract are located. The NASA accession number denotes the number by which the citation is identified within the subject category.

A

ABLATION

- Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding [NASA-CASE-IHS-02677] c31 N70-42075
- Hypersonic test facility for studying ablation in models under high pressure and high temperature [NASA-CASE-XLA-00378] c11 N71-15925
- Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure [NASA-CASE-XLA-05378] c11 N71-21475
- Ablation sensor for measuring char layer recession rate using electric wires [NASA-CASE-XLA-01794] c33 N71-21586
- Ablation sensor for measuring surface ablation rate of material on vehicles entering earth's atmosphere on entry into planetary atmospheres [NASA-CASE-XLA-01791] c14 N71-22991
- Ablative system with liquid carrying ablative material bodies and forming self-replacing ablative surface [NASA-CASE-LEW-10359] c33 N72-25911

ABLATIVE MATERIALS

- Filling honeycomb matrix with deaerated paste filler [NASA-CASE-IHS-01108] c15 N69-24322
- Sensor device with switches for measuring surface recession of charring and noncharring ablators [NASA-CASE-XLA-01781] c14 N69-39975
- Vacuum method for molding thermosetting compounds used as ablative materials [NASA-CASE-XLA-01091] c15 N71-10672
- Ablative resins used for retarding regression in ablative material [NASA-CASE-XLB-05913] c33 N71-14032
- Design, development, and characteristics of ablation structures [NASA-CASE-IHS-01816] c33 N71-15623
- Method and apparatus for fabrication of heat insulating and ablative reentry structure [NASA-CASE-IHS-02009] c33 N71-20834
- Production and application of sprayable fiber reinforced ablation material [NASA-CASE-XLA-04251] c18 N71-26100
- Ablative heat shield for protection from aerodynamic heating of reentry spacecraft [NASA-CASE-HSC-12143-1] c33 N72-17947
- Ablative system with liquid carrying ablative material bodies and forming self-replacing

- ablative surface [NASA-CASE-LEW-10359] c33 N72-25911
- Carrier liquid system containing bodies of ablative material [NASA-CASE-LEW-10359-2] c33 N73-25952
- Ablation article and surface for analyzing flow transition on ablative surface [NASA-CASE-LAR-10439-1] c33 N73-27796
- Dual measurement ablation sensor [NASA-CASE-LAR-10105-1] c34 N74-15652
- Sprayable low density ablator and application process [NASA-CASE-MPS-23506-1] c24 N78-24290
- Intumescent-ablator coatings using endothermic fillers [NASA-CASE-ARC-11043-1] c24 N78-27180
- Cork-resin ablative insulation for complex surfaces and method for applying the same [NASA-CASE-MPS-23626-1] c24 N80-26388

ABORT APPARATUS

- Coupling device for linear shaped charge for space vehicle abort system [NASA-CASE-XLA-00189] c33 N70-36846

ABRASION RESISTANCE

- Zinc dust formulation for abrasion resistant steel coatings [NASA-CASE-GSC-10361-1] c18 N72-23581
- Improved nozzle for use with abrasive and/or corrosive materials [NASA-CASE-NPO-13823-1] c37 N77-17466
- Abrasion resistant coatings for plastic surfaces [NASA-CASE-ARC-10915-3] c24 N77-24200
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses [NASA-CASE-ARC-11039-1] c74 N78-32854
- Heat sealable, flame and abrasion resistant coated fabric [NASA-CASE-HSC-18382-1] c27 N80-24440

ABSORBENTS

- Absorbent apparatus for separating gas from liquid-gas stream used in environmental control under zero gravity conditions [NASA-CASE-IHS-01492] c05 N70-41297
- Fluid flow control valve for regulating fluids in molecular quantities [NASA-CASE-XLB-00703] c15 N71-15967
- Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material [NASA-CASE-MPS-18100] c15 N72-11390
- Protein sterilization of firefly luciferase without denaturation [NASA-CASE-GSC-10225-1] c06 N73-27086
- Oil and fat absorbing polymers [NASA-CASE-NPO-11609-2] c27 N77-31308
- Sweat collection capsule [NASA-CASE-ARC-11031-1] c54 N78-22720

ABSORBERS (MATERIALS)

- Broadband chokes and absorbers to reduce spurious radiation patterns of antenna array caused by support structures [NASA-CASE-IHS-05303] c07 N69-27462
- Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator [NASA-CASE-LAR-10180-1] c06 N71-13461
- Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal [NASA-CASE-MPS-14711] c15 N71-26185
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- Exhaust nozzle with afterburning for generating thrust
[NASA-CASE-XLA-00154] c28 N70-33374
- AGING (MATERIALS)**
- Method of heat treating age-hardenable alloys
[NASA-CASE-IHP-01311] c26 N75-29236
- AGRICULTURE**
- Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701
- AILERONS**
- Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
- AIR**
- Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080
- Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-IHP-01185] c26 N73-28710
- AIR BREATHING ENGINES**
- Small air breathing launch vehicle
[NASA-CASE-LAR-12250-1] c15 N78-25120
- AIR CONDITIONING**
- Automotive absorption air conditioner utilizing

AIR CONDITIONING EQUIPMENT

SUBJECT INDEX

solar and motor waste heat
[NASA-CASE-NPO-15183] c44 N80-29843

Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c31 N80-32583

AIR CONDITIONING EQUIPMENT

Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMF-03212] c15 N71-22721

Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c31 N74-27902

AIR COOLING

Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLB-00092] c15 N70-33264

AIR FILTERS

Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-HSC-12297] c14 N72-23457

AIR FLOW

Wind tunnel air flow modulating device and apparatus for selectively generating wave motion in wind tunnel airstream
[NASA-CASE-XLA-00112] c11 N70-33287

Photographing surface flow patterns on wind tunnel test models
[NASA-CASE-XLA-01353] c14 N70-41366

Method for maintaining good performance in gas turbine during air flow distortion
[NASA-CASE-LEW-10286-1] c28 N71-28915

Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144

Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c31 N74-27902

Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190

Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c37 N76-18456

Smoke generator
[NASA-CASE-ARC-10905-1] c37 N77-13418

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c37 N78-17384

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c07 N78-25089

AIR INTAKES

Aeroflexible wing structure with air scoop for inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981

Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c05 N79-24976

AIR LOCKS

Spacecraft air lock system to provide ingress and egress of astronaut without subjecting vehicular environment to vacuum of space
[NASA-CASE-XLA-02050] c31 N71-22968

System for removing and repairing spacecraft control thrusters by use of portable air locks
[NASA-CASE-HFS-20325] c28 N71-27095

Airlock for waste transferal from pressurized enclosure aboard space vehicle to waste receiver at negative pressure
[NASA-CASE-HFS-20922] c31 N72-20840

Airlock

[NASA-CASE-HFS-20922-1] c18 N74-22136

Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c31 N74-27900

AIR POLLUTION

Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator
[NASA-CASE-LAR-10180-1] c06 N71-13461

Contamination free separation nut eliminating combustion products from ambient surroundings generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284

Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656

Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742

Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714

Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c37 N77-31497

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c44 N78-31527

AIR PURIFICATION

Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-HFS-12806] c14 N71-17588

Portable apparatus producing high velocity annular air column surrounding low velocity, filtered, superclean air central core for industrial clean room environmental control
[NASA-CASE-XMF-03212] c15 N71-22721

Cell and method for electrolysis of water and anode therefor --- oxygen recovery in connection with space transportation vehicles
[NASA-CASE-HSC-16394-1] c25 N80-26406

AIR SAMPLING

Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824

Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401

AIR TRAFFIC CONTROL

Traffic control system for supersonic transports using synchronous satellite for data relay between vehicles and ground station
[NASA-CASE-GSC-10087-1] c02 N71-19287

Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948

System and method for position locating for air traffic control involving supersonic transports
[NASA-CASE-GSC-10087-3] c07 N72-12080

AIRBORNE EQUIPMENT

Inflatable radar reflector unit - lightweight, highly reflective to electromagnetic radiation, and adaptable for erection and deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063

AIRBORNE/SPACEBORNE COMPUTERS

Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914

AIRCRAFT

Pilot warning indicator system of intruder aircraft
[NASA-CASE-ERC-10226-1] c14 N73-16483

Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c32 N78-24391

AIRCRAFT ACCIDENTS

Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948

Battery powered aircraft crash locator transmitter
[NASA-CASE-HFS-16609] c14 N72-21431

AIRCRAFT APPROACH SPACING

Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631

AIRCRAFT COMPARTMENTS

Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027

Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c24 N78-27184

AIRCRAFT CONFIGURATIONS

Variable sweep wing configuration for supersonic aircraft
[NASA-CASE-XLA-00230] c02 N70-33255

SUBJECT INDEX

AIRCRAFT INSTRUMENTS

- Television simulation for aircraft and space flight
[NASA-CASE-IPR-03107] c09 N71-19449
- Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ABC-10970-1] c02 N73-26005
- Development of aircraft configuration for reduction of jet aircraft noise by exhausting engine gases over upper surface of wing
[NASA-CASE-LAR-11087-1] c02 N73-26008
- Variable dihedral shuttle orbiter
[NASA-CASE-LAR-10706-2] c05 N77-31132
- AIRCRAFT CONSTRUCTION MATERIALS**
- Ceramic fiber insulating material and method of producing same --- aircraft construction materials
[NASA-CASE-HSC-14795-2] c24 N78-25138
- AIRCRAFT CONTROL**
- Development and characteristics of control system for flexible wings
[NASA-CASE-XLA-06958] c02 N71-11038
- Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570
- Device for controlling rotary potentiometer mounted on aircraft steering wheel or aileron control
[NASA-CASE-XAC-10019] c15 N71-23809
- Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110
- Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
- Development of aircraft control system with high performance electrically controlled and mechanically operated hydraulic valves for precise flight operation
[NASA-CASE-XAC-00048] c02 N71-29128
- Development of thrust control system for application to control of aircraft and spacecraft
[NASA-CASE-HSC-13397-1] c21 N72-25595
- Aircraft control system for rotary wing aircraft
[NASA-CASE-BRC-10439] c02 N73-19004
- Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-BRC-10350] c14 N73-20474
- Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004
- Integrated lift/drag controller for aircraft
[NASA-CASE-ABC-10456-1] c05 N75-12930
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c08 N79-23097
- AIRCRAFT DESIGN**
- Design of supersonic aircraft with novel fixed, swept wing planform
[NASA-CASE-XLA-04451] c02 N71-12243
- Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ABC-10470-1] c02 N73-26005
- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-IMP-02263] c05 N74-10907
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c05 N75-25914
- Oblique-wing supersonic aircraft
[NASA-CASE-ABC-10470-3] c05 N76-29217
- Aircraft design concept
[NASA-CASE-LAR-11852-1] c05 N77-15027
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c05 N78-32086
- Helicopter rotor airfoil
[NASA-CASE-LAR-12396-1] c02 N79-24958
- AIRCRAFT DETECTION**
- Surface based altitude measuring system for accurately measuring altitude of airborne vehicle
[NASA-CASE-BRC-10412-1] c09 N73-12211
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c35 N79-18296
- AIRCRAFT ENGINES**
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c07 N74-32418
- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c07 N77-28118
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c33 N80-26599
- Aircraft engine nozzle
[NASA-CASE-ABC-10977-1] c07 N80-32392
- AIRCRAFT EQUIPMENT**
- Battery powered aircraft crash locator transmitter
[NASA-CASE-NPS-16609] c14 N72-21431
- Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-BRC-10081] c14 N72-28437
- A system for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c06 N79-24988
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c06 N80-18036
- AIRCRAFT FUEL SYSTEMS**
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c37 N78-10467
- AIRCRAFT GUIDANCE**
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c04 N74-13420
- Improved Sun-sensing guidance system for high-altitude aircraft
[NASA-CASE-FRC-11052-1] c04 N80-20249
- AIRCRAFT HAZARDS**
- Deflector for preventing objects from entering nacelle inlets of jet aircraft
[NASA-CASE-XLE-00388] c28 N70-34788
- AIRCRAFT HYDRAULIC SYSTEMS**
- Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793
- A hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c05 N80-11065
- AIRCRAFT INSTRUMENTS**
- Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
- Pressure probe for sensing ambient static air pressures
[NASA-CASE-XLA-00481] c14 N70-36824
- Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157
- Optical projector system for establishing optimum arrangement of instrument displays in aircraft, spacecraft, other vehicles, and industrial instrument consoles
[NASA-CASE-IMP-03853] c23 N71-21882
- Combined optical attitude and altitude indicating instrument for use in aircraft or spacecraft
[NASA-CASE-XLA-01907] c14 N71-23268
- Aircraft horizon and vertical indicator
[NASA-CASE-BRC-10392] c21 N73-14692
- G-load measuring and indicator apparatus
[NASA-CASE-ABC-10806-1] c35 N75-29381
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
- Turbulence intensity indicator
[NASA-CASE-LAR-11833-1] c06 N76-31229
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-NPS-16609-3] c03 N76-32140

AIRCRAFT LANDING

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AIRCRAFT LANDING

Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858

Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619

Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930

Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c09 N76-24280

Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c09 N78-18083

AIRCRAFT LAUNCHING DEVICES

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c09 N77-19076

AIRCRAFT MANEUVERS

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381

AIRCRAFT MODELS

Free flight suspension system for use with aircraft models in wind tunnel tests
[NASA-CASE-XLA-00939] c11 N71-15926

Variable geometry wind tunnel for testing aircraft models at subsonic speeds
[NASA-CASE-XLA-07430] c11 N72-22246

Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c02 N76-16014

AIRCRAFT NOISE

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c07 N76-27232

AIRCRAFT PERFORMANCE

Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257

AIRCRAFT PILOTS

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c09 N74-30597

AIRCRAFT SAFETY

Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807

Development and operating principles of collision warning system for aircraft accident prevention
[NASA-CASE-HQW-10703] c21 N73-13643

Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421

AIRCRAFT SPIN

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c08 N80-18048

AIRCRAFT STABILITY

Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422

Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004

A velocity vector control system augmented with direct lift control --- stability augmentation using manual control
[NASA-CASE-LAR-12268-1] c08 N79-20136

AIRCRAFT STRUCTURES

Fatigue testing device applying random discrete load levels to test specimen and applicable to aircraft structures
[NASA-CASE-XLA-02131] c32 N70-42003

Heat flux sensor adapted for mounting on aircraft or spacecraft to measure aerodynamic heat flux inflow to aircraft skin
[NASA-CASE-XPR-03802] c33 N71-23085

Three-axis adjustable loading structure
[NASA-CASE-PRC-10051-1] c35 N74-13129

Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230

Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001

New perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups --- sealers

for aircraft structures
[NASA-CASE-ARC-11241-1] c27 N79-24153

AIRCRAFT TIRES

Improved tire/wheel concept --- pneumatic aircraft tire
[NASA-CASE-LAR-11695-2] c37 N80-18402

AIRCRAFT WAKES

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-PRC-11024-1] c02 N80-28300

AIRFOILS

Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13410

Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411

Miniature hydraulic actuator --- for control surfaces on airfoils
[NASA-CASE-LAR-11522-1] c34 N74-34881

Wind tunnel
[NASA-CASE-LAR-10135-1] c09 N79-21083

Surface finishing --- adhesive bonding of plastic film to metal airfoil surfaces
[NASA-CASE-MSC-12631-3] c26 N79-21183

An annular wing
[NASA-CASE-PRC-11007-2] c02 N79-24959

AIRFRAMES

Design of dual fuselage aircraft with pivoting wing and horizontal stabilizer to permit yawing of wing in flight for high speed operation
[NASA-CASE-ARC-10470-1] c02 N73-26005

A cooling system for an aircraft having a cruise range from Mach 2 to Mach 8
[NASA-CASE-LAR-12406-1] c05 N79-24980

AIRSPEED

Aerodynamic configuration for aircraft capable of high speed flight and low drag for low speed takeoff or landing upon presently existing airfields
[NASA-CASE-XLA-00806] c02 N70-34858

Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c35 N79-18296

Air speed and attitude probe
[NASA-CASE-PRC-11009-1] c06 N80-18036

ALCOHOLS

New trifunctional alcohol derived from trimer acid and novel method of preparation
[NASA-CASE-MPO-10714] c06 N69-31244

Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol
[NASA-CASE-MPS-20180] c16 N72-12440

ALDEHYDES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-MXP-08655] c06 N71-11239

Synthesis of azine polymers for heat shields by azine-aromatic aldehyde reaction
[NASA-CASE-MXP-08656] c06 N71-11242

Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-MXP-03074] c06 N71-24740

Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-MPO-10557] c27 N78-17214

ALIGNMENT

Centering device with ultrafine adjustment for use with roundness measuring apparatus
[NASA-CASE-MXP-00480] c14 N70-39898

Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-MXP-01452] c15 N70-41371

Electro-optical/computer system for aligning large structural members and maintaining correct position
[NASA-CASE-MXP-02029] c14 N70-41955

Electrical and electromechanical trigonometric computation assembly and space vehicle guidance system for aligning perpendicular axes of two sets of three-axes coordinate references
[NASA-CASE-MXP-00684] c21 N71-21688

Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-INS-04178] c15 N71-22798

- Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
- Measuring roll alignment of test body with respect to reference body
[NASA-CASE-GSC-10514-1] c14 N72-20379
- Apparatus for aligning shadow shields and cryogenic storage tanks in outer space with the sun
[NASA-CASE-KSC-10622-1] c31 N72-21893
- Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c18 N76-14186
- Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
- Optical alignment device
[NASA-CASE-ARC-10932-1] c74 N76-22993
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c37 N77-14478
- Guide for a typewriter
[NASA-CASE-MPS-15218-1] c37 N77-19457
- Rotary target V-block --- aligning wind tunnel apparatus for optical measurement
[NASA-CASE-LAR-12007-2] c74 N79-25876
- ALKALI METALS**
- Ultraviolet radiation resistant alkali-metal silicate coatings for temperature control of spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979
- Analytical test apparatus and method for determining oxygen content in alkali liquid metal
[NASA-CASE-XLE-01997] c06 N71-23527
- Composition and production method of alkali metal silicate paint with ultraviolet reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183
- Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
- Method for producing alkali metal dispersions of high purity
[NASA-CASE-INP-08876] c17 N73-28573
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c26 N78-32229
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c24 N79-31347
- ALKALINE BATTERIES**
- Method for determining state of charge of alkali batteries by using tritium as tracer
[NASA-CASE-INP-01464] c03 N71-10728
- Alkaline-type coulometer cell for primary charge control in secondary battery recharge circuits
[NASA-CASE-IGS-05434] c03 N71-20491
- Electrocatalyst for oxygen reduction in low temperature alkaline fuel cell
[NASA-CASE-BQN-10537-1] c06 N72-10138
- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c44 N78-25530
- Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-4] c44 N80-18555
- Flexible formulated plastic separators for alkaline batteries
[NASA-CASE-LEW-12363-3] c44 N80-18556
- ALKALINE EARTH OXIDES**
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c26 N78-32229
- ALKYL COMPOUNDS**
- Preparation of fluoroalkoxy ethers by reacting fluoroalkylene oxides with alkali salt of polyfluoroalkylene diol
[NASA-CASE-MPS-10507] c06 N73-30101
- ALL-WEATHER AIR NAVIGATION**
- Autonomous navigation system --- using gyroscopic pendulums and gimbals for air navigation system which disposes
[NASA-CASE-ARC-11257-1] c04 N79-33177
- ALLOYS**
- Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-INP-03063] c17 N71-23365
- Metal alloy bearing materials for space applications
[NASA-CASE-XLE-05033] c15 N71-23810
- High thermal emittance black surface coatings and process for applying to metal and metal alloy surfaces used in radiative cooling of spacecraft
[NASA-CASE-XLA-06199] c15 N71-24875
- Adjustable rigid mount for trihedral mirror formed of alloy with small coefficient of thermal expansion supporting screws and spring-biased plates
[NASA-CASE-INP-08907] c23 N71-29123
- Two-step diffusion welding process of unrecrystallized alloys
[NASA-CASE-LEW-11388-1] c15 N73-32358
- Brazing alloy binder
[NASA-CASE-INP-05868] c26 N75-27125
- Brazing alloy
[NASA-CASE-INP-03878] c26 N75-27127
- ALPHA PARTICLES**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c25 N80-20334
- ALPHANUMERIC CHARACTERS**
- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c33 N75-19517
- ALTERNATING CURRENT**
- Characteristics of high power, low distortion, alternating current power amplifier
[NASA-CASE-LAR-10218-1] c09 N70-34559
- Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
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- [NASA-CASE-XNP-01057] c07 N71-15907
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- [NASA-CASE-GSC-10299-1] c09 N71-24804
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- [NASA-CASE-NPO-10231] c07 N71-26101
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- [NASA-CASE-XGS-02290] c07 N71-28809
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- [NASA-CASE-NPO-14054-1] c32 N79-14278
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- [NASA-CASE-NPS-20068] c07 N71-27191
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- [NASA-CASE-XLB-09527-2] c15 N71-26189
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- [NASA-CASE-LEW-11026-1] c15 N73-33383
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ANTIHISTAMINICS

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[NASA-CASE-ARC-11118-1] c52 N78-11692

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[NASA-CASE-IMP-03332] c09 N71-10618

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[NASA-CASE-IMP-05302] c15 N71-23254

Apparatus for on-film optical recording of camera lens aperture and focus setting
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[NASA-CASE-ARC-10448-2] c74 N75-12732

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[NASA-CASE-NPO-14035-1] c32 N78-18266

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Low onset rate energy absorber in form of strut assembly for crew couch of Apollo command module
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[NASA-CASE-XGS-04768] c08 N71-19437

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[NASA-CASE-NPO-13063-1] c25 N76-18245

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[NASA-CASE-MSC-16497-1] c25 N79-23167

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[NASA-CASE-XAC-00319] c25 N70-41628

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[NASA-CASE-NPO-11510-1] c33 N77-21315

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[NASA-CASE-LAR-11372-1] c27 N74-19772

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[NASA-CASE-XLA-01163] c21 N71-15582
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[NASA-CASE-IAC-02405] c09 N71-16089
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[NASA-CASE-XLB-03583] c31 N71-17629
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[NASA-CASE-ARC-10134] c30 N72-17873

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[NASA-CASE-NPO-11631] c10 N73-12244

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[NASA-CASE-GSC-10668-1] c07 N71-28430
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[NASA-CASE-MSC-14916-1] c33 N78-10375

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[NASA-CASE-HQH-10832-1] c71 N74-21014

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[NASA-CASE-MSC-12223-1] c07 N71-26181
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[NASA-CASE-NPO-11631] c10 N73-12244

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[NASA-CASE-NPO-14876-1] c28 N80-26460

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[NASA-CASE-KSC-11085-1] c54 N79-33848

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[NASA-CASE-NPO-10351] c08 N71-12503
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[NASA-CASE-XNP-00746] c07 N71-21476

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Automatic balancing device for use on frictionless supported attitude-controlled test platforms
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Fluid leakage detection system with automatic monitoring capability
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 [NASA-CASE-XLE-00170] c15 N70-36412
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 [NASA-CASE-GSC-11551-1] c37 N76-18459
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 [NASA-CASE-ARC-11248-1] c27 N79-22301
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 [NASA-CASE-ARC-11241-1] c27 N79-24153
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 [NASA-CASE-ARC-11267-2] c25 N80-26407

B

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Apparatus for measuring backscatter and transmission characteristics of sample segment of large spherical passive satellites
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[NASA-CASE-IMP-03835] c06 N71-23499
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[NASA-CASE-GSC-10879-1] c14 N72-25413
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[NASA-CASE-GSC-11092-2] c04 N73-27052
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[NASA-CASE-LAR-10544-1] c37 N74-13178
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[NASA-CASE-GSC-11917-2] c51 N76-29891
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Light radiation direction indicator with baffle of two parallel grids
[NASA-CASE-IMP-03930] c14 N69-24331
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[NASA-CASE-NPO-10337] c14 N71-15604
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[NASA-CASE-LAR-10317-1] c32 N71-16103
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[NASA-CASE-KSC-10639] c15 N73-26472
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[NASA-CASE-XMS-06761] c05 N69-23192
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[NASA-CASE-NPS-21556-1] c35 N74-26945
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Automatic balancing device for use on frictionless supported attitude-controlled test platforms
[NASA-CASE-LAR-10774] c10 N71-13545
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[NASA-CASE-NPO-10808] c15 N71-27432
Static force balancing system attached to lifting body
[NASA-CASE-LAR-10348-1] c11 N73-12264
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[NASA-CASE-LEW-10856-1] c15 N72-22490
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[NASA-CASE-LEW-11087-1] c15 N73-30458
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[NASA-CASE-LEW-11087-3] c37 N74-21064
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Inflatable stabilizing system for use on life raft to reduce rocking and preclude capsizing
[NASA-CASE-MSC-12393-1] c02 N73-26006
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[NASA-CASE-IGS-05003] c09 N69-24318
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Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c27 N76-15310
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Apparatus for controlling the temperature of balloon-borne equipment
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- BALLOONS**
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[NASA-CASE-XLA-06824-2] c02 N71-11037
Inflation system for balloon type satellites
[NASA-CASE-IGS-03351] c31 N71-16081
System for controlling torque buildup in suspension of gondola connected to balloon by parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
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Two axis flight controller with potentiometer control shafts directly coupled to rotatable ball members
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[NASA-CASE-NPO-14473-1] c37 N80-23654
- BANDPASS FILTERS**
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[NASA-CASE-IGS-02816] c07 N69-24323
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[NASA-CASE-IMP-01107] c10 N71-28859
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[NASA-CASE-XMS-06740-1] c07 N71-26579
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[NASA-CASE-NPO-13801-1] c36 N78-18410
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 [NASA-CASE-GSC-12410-1] c33 N79-24260
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 [NASA-CASE-NPO-14519-1] c32 N80-23524

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 [NASA-CASE-LAR-10670-1] c06 N73-30097

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 [NASA-CASE-XLE-07087] c06 N69-39889

BARIUM FLUORIDES
 Production of barium fluoride-calcium fluoride composite lubricant for bearings or seals
 [NASA-CASE-XLE-08511-2] c18 N71-16105

BARIUM ION CLOUDS
 Rocket having barium release system to create ion clouds in the upper atmosphere
 [NASA-CASE-LAR-10670-2] c15 N74-27360

BARIUM TITANATES
 Memory device employing semiconductor and ferroelectric properties of single crystal barium titanate
 [NASA-CASE-ERC-10307] c08 N72-21198

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 [NASA-CASE-NPO-11856-1] c36 N74-15145

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 [NASA-CASE-XLA-01995] c18 N71-23047

BASKETS
 Liquid immersion apparatus for minute articles
 [NASA-CASE-MPS-25363-1] c31 N80-32585

BATTERY CHARGERS
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 [NASA-CASE-XGS-05432] c03 N71-19438
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 [NASA-CASE-XGS-05434] c03 N71-20491
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 [NASA-CASE-GSC-10487-1] c03 N71-24719
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 [NASA-CASE-MPS-23270-1] c44 N78-25531

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 [NASA-CASE-MSC-12105-1] c14 N72-21409
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 [NASA-CASE-MPS-19259-1] c36 N78-14380
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 [NASA-CASE-NPO-13999-1] c35 N78-18395
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 [NASA-CASE-GSC-12083-1] c73 N78-32848
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 [NASA-CASE-LAR-12177-1] c36 N79-28532

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[NASA-CASE-GSC-10220-1] c07 N71-27233
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 [NASA-CASE-GSC-11760-1] c33 N75-19516
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 [NASA-CASE-GSC-11924-1] c33 N76-27472

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 [NASA-CASE-HQN-10541-2] c15 N71-27135
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 [NASA-CASE-HQN-10541-4] c16 N71-27183
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 [NASA-CASE-NPO-11087] c23 N71-29125
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 [NASA-CASE-ERC-10020] c16 N71-26154
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 [NASA-CASE-HQN-10541-3] c23 N72-23695
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 [NASA-CASE-NPO-14632-1] c32 N80-12256
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 [NASA-CASE-GSC-12365-1] c32 N80-28578
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 [NASA-CASE-XLA-00183] c14 N70-40239
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 [NASA-CASE-NPO-10320] c14 N71-17655
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 [NASA-CASE-HQN-10780] c14 N71-30265
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 [NASA-CASE-LAR-11387-2] c04 N77-19056

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 [NASA-CASE-XLE-05033] c15 N71-23810
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 [NASA-CASE-LEW-12527-1] c37 N77-32500
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 [NASA-CASE-LEW-12477-1] c37 N77-32501
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[NASA-CASE-XAR-01547] c05 N69-21473
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[NASA-CASE-XNP-05082] c15 N70-41960
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[NASA-CASE-XNP-01855] c15 N71-28937
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[NASA-CASE-MPS-19193-1] c37 N75-19686
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[NASA-CASE-NPO-13205-1] c31 N74-32917
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[NASA-CASE-XNP-09422] c07 N71-19436
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[NASA-CASE-XAC-05632] c32 N71-23971
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[NASA-CASE-XNP-10475] c15 N71-24679
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[NASA-CASE-XLA-05966] c15 N72-12408
- BENDING DIAGRAMS**
Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095
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[NASA-CASE-XLE-01300] c15 N70-41993
Cryostat for flexure fatigue testing of composite materials
[NASA-CASE-XNP-02964] c14 N71-17659
- BENDING MOMENTS**
Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XNP-03198] c30 N70-40353
- BENDING VIBRATION**
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
- BENZENE**
Para-benzoquinone dioxide and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
[NASA-CASE-ARC-10304-1] c18 N73-26572
- BERYLLIUM ALLOYS**
Development of fluoride coating to prevent oxidation of beryllium surfaces at elevated temperatures
[NASA-CASE-LEW-10327] c17 N71-33408
- BERYLLIUM HYDRIDES**
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c28 N79-14228
- BERYLLIUM OXIDES**
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c33 N76-15373
- BIAS**
Electrical self-aligning connector
[NASA-CASE-MPS-25211-1] c33 N80-32651
- BIMETALS**
Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
- Design and development of linear actuator based on bimetallic spring expansion
[NASA-CASE-NPO-10637] c15 N72-12409
Application of spiral, bimetallic strip to create circular motion on mechanical shaft by changing strip temperature
[NASA-CASE-NPO-11283] c09 N72-25260
Development of thermal compensating structure which maintains uniform length with changes in temperature
[NASA-CASE-MPS-20433] c15 N72-28496
Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c35 N77-32454
- BINARY CODES**
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-NPO-10342] c10 N71-33407
Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c33 N79-11313
- BINARY DATA**
Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743
Logic circuit to ripple add and subtract binary counters for spaceborne computers
[NASA-CASE-XGS-04766] c08 N71-18602
Describing circuit for obtaining sum of squares of numbers
[NASA-CASE-XGS-04765] c08 N71-18693
Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
[NASA-CASE-NPO-10851] c07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N78-17691
- BINARY DIGITS**
Logarithmic converter for compressing 19-digit binary input number to 8-digit output
[NASA-CASE-XLA-00471] c08 N70-34778
Circuit diagram and operation of full binary adder
[NASA-CASE-XGS-00689] c08 N70-34787
Binary number sorter for arranging numbers in order of magnitude
[NASA-CASE-NPO-10112] c08 N71-12502
Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-XNP-05415] c08 N71-12505
Cathode ray tube system for displaying ones and zeros in binary wave train
[NASA-CASE-XGS-04987] c08 N71-20571
Characteristics of comparator circuits for comparison of binary numbers in information processing system
[NASA-CASE-XNP-04819] c08 N71-23295
Digital converter for scaling binary number to binary coded decimal number of higher multiple
[NASA-CASE-MSC-10595] c08 N73-12176

- Family of m -ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c10 N73-20254
- Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850
- BINARY FLUIDS**
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
- BINARY TO DECIMAL CONVERTERS**
- Binary to binary-coded decimal converter using single set of logic circuits notwithstanding number of shift register decades
[NASA-CASE-XNP-00432] c08 N70-35423
- Design and operation of high speed binary to decimal conversion system
[NASA-CASE-XGS-01230] c08 N71-19544
- Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
- High speed direct binary to binary coded decimal converter for use in PCM telemetry systems
[NASA-CASE-KSC-10326] c08 N72-21197
- Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N78-17691
- BINDERS (MATERIALS)**
- Bonded solid lubricant coatings of calcium fluoride and binder for high temperature stability
[NASA-CASE-XMS-00259] c18 N70-36400
- Brazing alloy binder
[NASA-CASE-XMP-05868] c26 N75-27125
- Recovery of aluminum and binder from composite propellants
[NASA-CASE-NPO-14110-1] c28 N79-10225
- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c24 N79-31347
- BINOCULARS**
- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c74 N77-20882
- BIOASSAY**
- Spectrophotofluorometer with 3-dimensional display to identify fluorescence spectra of carcinogenic and noncarcinogenic hydrocarbons
[NASA-CASE-XGS-01231] c14 N70-41676
- Bioassay of flavin coenzymes
[NASA-CASE-GSC-10565-1] c06 N72-25149
- Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891
- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N79-12694
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c52 N79-14750
- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c51 N80-16714
- BIODYNAMICS**
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c52 N79-26772
- BIOELECTRIC POTENTIAL**
- Electrochemically reversible silver-silver chloride electrode for detecting bioelectric potential differences generated by human muscles and organs
[NASA-CASE-XMS-02872] c05 N69-21925
- Manufacturing process for making perspiration resistant-stress resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c05 N72-25120
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c51 N77-25769
- BIOELECTRICITY**
- Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid
[NASA-CASE-XMS-04213-1] c09 N71-26002
- BIOENGINEERING**
- Bio-isolated dc operational amplifier --- for bioelectric measurements
- [NASA-CASE-ARC-10596-1] c33 N74-21851
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c52 N77-14735
- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-3] c27 N78-25219
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c52 N79-14756
- Improved subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c52 N79-15576
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c52 N79-26772
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c14 N80-24342
- BIOINSTRUMENTATION**
- Temperature compensated solid state differential amplifier with application in bioinstrumentation circuits
[NASA-CASE-XAC-00435] c09 N70-35440
- Electrode attached to helmets for detecting low level signals from skin of living creatures
[NASA-CASE-ARC-10043-1] c05 N71-11193
- Characteristics of pressed disc electrode for biological measurements
[NASA-CASE-XMS-04212-1] c05 N71-12346
- Development of apparatus and method for quantitatively measuring brain activity as automatic indication of sleep state and level of consciousness
[NASA-CASE-MSC-13282-1] c05 N71-24729
- Development and characteristics of electrodes in which poisoning by organic molecules is prevented by ion selective electrolytic deposition of hydrophilic protein colloid
[NASA-CASE-XMS-04213-1] c09 N71-26002
- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 N75-31329
- A logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c52 N76-27839
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c52 N77-10780
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772
- Corneal seal device
[NASA-CASE-LEW-12258-1] c52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c52 N77-28717
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N79-18580
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c52 N80-18691
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c52 N80-23969
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c51 N80-27067
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c52 N80-27072
- An implantable electrical device
[NASA-CASE-GSC-12560-1] c52 N80-27073
- BIOLUMINESCENCE**
- Detection instrument for light emitted from ATP biochemical reaction
[NASA-CASE-XGS-05534] c23 N71-16355
- Describing method for lyophilization of luciferase containing mixtures for use in life detection reactions
[NASA-CASE-XGS-05532] c06 N71-17705
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c51 N77-22794

- Rapid, quantitative determination of bacteria in water
[NASA-CASE-GSC-12158-1] c51 N78-22585
- BIO MEDICAL DATA**
Silicon radiation detecting probe design for in vivo biomedical use
[NASA-CASE-XMS-01177] c05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c52 N79-26771
- BIO METRICS**
Characteristics of pressed disc electrode for biological measurements
[NASA-CASE-XMS-04212-1] c05 N71-12346
Compressible electrolyte saturated sponge electrode for biomedical applications
[NASA-CASE-MSC-13648] c05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c52 N80-27072
- BIO NICS**
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MPS-23825-1] c14 N80-24342
- BIOTELEMETRY**
Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894
- BIPOLAR TRANSISTORS**
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c33 N79-23345
- BIREFRINGENCE**
Automatic polarimeter capable of measuring transient birefringence changes in electro-optic materials
[NASA-CASE-XNP-08883] c23 N71-16101
- BISMUTH**
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c76 N79-16678
- BISMUTH COMPOUNDS**
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213
- BISTABLE CIRCUITS**
Bistable multivibrator circuits operating at high speed and low power dissipation
[NASA-CASE-IGS-00823] c10 N71-15910
- BIT SYNCHRONIZATION**
Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-XNP-09225] c09 N69-24333
Bit synchronization system using digital data transition tracking phased locked loop
[NASA-CASE-NPO-10844] c07 N72-20140
Bit synchronization of PCM communications signal, without separate synchronization channel by digital correlation
[NASA-CASE-NPO-11302-1] c07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c32 N74-10132
- BITERMINARY CODE**
Encoders designed to generate comma free biorthogonal Reed-Muller type code comprising conversion of 64 6-bit words into 64 32-bit data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917
- BITS**
Logic circuit for generating multibit binary code word in parallel
[NASA-CASE-XNP-04623] c10 N71-26103
MOD 2 sequential function generator for multibit sequence, with two-bit shift register for each pair of bits
[NASA-CASE-NPO-10636] c08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N79-10263
- BLACK BODY RADIATION**
Development of black-body source calibration furnace
[NASA-CASE-XLE-01399] c33 N71-15625
Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
Black body radiometer design with temperature sensing and cavity heat source cone winding
[NASA-CASE-XNP-09701] c14 N71-26475
Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
- BLADDER**
Prosthetic urinary sphincter
[NASA-CASE-MPS-23717-1] c52 N79-14756
Spine immobilization method and apparatus --- rigid bladder
[NASA-CASE-ARC-11167-1] c52 N79-30921
- BLADE TIPS**
Modification and improvement of turbine blades for maximum cooling efficiency
[NASA-CASE-XLE-00092] c15 N70-33264
- BLADES**
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c37 N78-10468
- BLADES (CUTTERS)**
Piston in bore cutter for severing parachute control lines and sealing cable hole to prevent water leakage into load
[NASA-CASE-XMS-04072] c15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c52 N78-14773
Precision reciprocating filament chopper
[NASA-CASE-LAR-12564-1] c37 N80-17468
- BLAST LOADS**
Development of apparatus for detonating explosive devices in order to determine forces generated and detonation propagation rate
[NASA-CASE-LAR-10800-1] c33 N72-27959
- BLOCKS**
Rotary target V-block --- aligning wind tunnel apparatus for optical measurement
[NASA-CASE-LAR-12007-2] c74 N79-25876
- BLOOD**
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c52 N79-14749
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c52 N80-14687
- BLOOD FLOW**
A logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c52 N76-27839
- BLOOD PRESSURE**
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 N74-27566
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c54 N75-13531
- BLUFF BODIES**
Bluff-shaped annular configuration for supersonic decelerator for reentry vehicles
[NASA-CASE-XLE-00222] c02 N70-37939

BLUNT BODIES

Wind tunnel method for simulating flow fields around blunt vehicles entering planetary atmospheres without involving high temperatures
[NASA-CASE-LAR-11138] c12 N71-20436

BODIES OF REVOLUTION

Conforming polisher for aspheric surfaces of revolution with inflatable tube
[NASA-CASE-XGS-02884] c15 N71-22705
Test fixture for measuring moment of inertia of irregularly shaped body with multiple axes
[NASA-CASE-XGS-01023] c14 N71-22992

BODY FLUIDS

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c51 N76-29891

BODY KINEMATICS

Space suit with improved waist and torso movement
[NASA-CASE-ARC-10275-1] c05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c37 N79-28551

BODY MEASUREMENT (BIOLOGY)

Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N79-18580

BODY TEMPERATURE

Thermoregulating with cooling flow pipe network for humans
[NASA-CASE-XMS-10269] c05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c52 N76-29894

BODY VOLUME (BIOLOGY)

Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c52 N74-10975

BODY-WING CONFIGURATIONS

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c05 N79-12061

BOILERS

Vapor generating boiler system for turbine motor
[NASA-CASE-XLE-00785] c33 N71-16104
Shell-side liquid metal boiler employing tube and shell heat exchanger
[NASA-CASE-NPO-10831] c33 N72-20915

BOLOMETERS

High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-XNP-01193] c10 N71-16057
Thin film capacitive bolometer and capacitance temperature interchange sensor
[NASA-CASE-NPO-10607] c09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c35 N79-33449

BOLTS

Patent data on gas actuated bolt disconnect assembly
[NASA-CASE-XLA-00326] c03 N70-34667
Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601
Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XNP-04966] c14 N71-17658
Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489
Device for securing together structural members with axially stretched bolt and nut
[NASA-CASE-GSC-11149-1] c15 N73-30457

BONDING

Silver chloride use in technique for fusion bonding of graphite to silver, glass, ceramics, and certain other metals
[NASA-CASE-XGS-00963] c15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c44 N79-24431

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c24 N79-25143

BONES

Ultrasonic bone densitometer
[NASA-CASE-NFS-20994-1] c35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c27 N78-17215

BOOMS (EQUIPMENT)

Unfolding boom assembly with knuckle joints for positioning equipment for spacecraft
[NASA-CASE-XGS-00938] c32 N70-41367
Collapsible antenna boom and coaxial transmission line having inflatable inner tube
[NASA-CASE-NFS-20068] c07 N71-27191
Extendable, self-deploying boom apparatus
[NASA-CASE-GSC-10566-1] c15 N72-18477
Design and characteristics of mechanically extended and telescoping boom on crane assembly
[NASA-CASE-NPO-11118] c03 N72-25021

BOOSTER RECOVERY

Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XNP-00389] c31 N70-34176
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XNP-01973] c31 N70-41588

BOOSTER ROCKET ENGINES

Segmented back-up bar for butt welding large tubular structures such as rocket booster bodies or tanks
[NASA-CASE-XNP-00640] c15 N70-39924
Recoverable, reusable single stage booster capable of injecting large payloads into circular earth orbit
[NASA-CASE-XNP-01973] c31 N70-41588

BOOTS (FOOTWEAR)

Walking boot assembly
[NASA-CASE-ARC-11101-1] c54 N78-17675

BORIDES

Cesium thermionic converters having improved electrodes
[NASA-CASE-LEW-12038-3] c44 N78-25555

BORING MACHINES

Automatic controlled drive mechanism for portable boring bar
[NASA-CASE-XLA-03661] c15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c46 N80-10709

BORON

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c76 N74-20329

BORON CARBIDES

Catalyst for increased growth of boron carbide crystal whiskers
[NASA-CASE-XHQ-03903] c15 N69-21922

BORON FLUORIDES

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c27 N78-31233

BOUNDARY LAYER CONTROL

Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N70-42016

BOUNDARY LAYER SEPARATION

Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-NFS-20831] c28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c05 N79-24976

BOUNDARY LAYER TRANSITION

Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c02 N80-20224

BOUNDARY LAYERS

Flow meter for measuring stagnation pressure in boundary layer around high speed flight vehicle
[NASA-CASE-XPB-02007] c12 H71-24692
Development of thermocouple instrument for measuring temperature of wall heated by flowing fluid without disturbing boundary layer
[NASA-CASE-XLB-05230] c14 H72-27410

BOXES (CONTAINERS)

Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 H71-26133

BRACKETS

Electrical servo actuator bracket --- for jet engine fuel control valves
[NASA-CASE-PRC-11044-1] c07 H80-21327

BRAKES (FOR ARRESTING MOTION)

Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 H70-34850
Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-XKS-07814] c15 H71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
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Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896

Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c54 N75-27760

CARDIOLOGY

Development of instantaneous reading tachometer for measuring electrocardiogram signal rate
[NASA-CASE-MFS-20418] c14 N73-24473

Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895

CARDIOTACHOMETERS

Digital computing cardiometer
[NASA-CASE-MFS-20284-1] c52 N74-12778

CARDIOVASCULAR SYSTEM

Conditioning suit for normal function of astronaut cardiovascular system in gravity environment
[NASA-CASE-ILA-02898] c05 N71-20268

Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-IAC-05422] c04 N71-23185

Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896

CARRIER FREQUENCIES

Demodulator for simultaneous demodulation of two modulating ac signal carriers close in frequency
[NASA-CASE-INP-01160] c07 N71-11298

Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113

Demodulator for carrier transducers
[NASA-CASE-MUC-10107-1] c33 N74-17930

Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c32 N74-20811

CARRIER WAVES

Variable frequency subcarrier oscillator with temperature compensation
[NASA-CASE-INP-03916] c09 N71-28810

Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c32 N75-24981

CARRIERS

Sealed storage container for channel carriers with mounted miniature electronic components
[NASA-CASE-MFS-20075] c09 N71-26133

Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c34 N74-27744

CARTESIAN COORDINATES

Design and development of random function tracer for obtaining coordinates of points on contour maps
[NASA-CASE-XLA-01401] c15 N71-21179

CARTRIDGES

Tape cartridge with high capacity storage of endless-loop magnetic tape
[NASA-CASE-XGS-00769] c14 N70-41647

Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813

CASCADE CONTROL

Reversible ring counter using cascaded single silicon controlled rectifier stages
[NASA-CASE-XGS-01473] c09 N71-10673

Synchronous dc direct-drive system comprising multiple-loop hybrid control system

controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136

Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245

CASCADE FLOW

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c07 N76-18117

CASE BONDED PROPELLANTS

Solid propellant motor
[NASA-CASE-NPO-11458A] c20 N78-32179

CASES (CONTAINERS)

Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-XGS-00886] c03 N71-11053

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876

Portable heatable container
[NASA-CASE-NPO-14237-1] c44 N80-20808

CASSEGRAIN ANTENNAS

Cassegrain antenna subreflector flange for suppressing ground noise and increasing antenna transmitting efficiency
[NASA-CASE-INP-00683] c09 N70-35425

Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285

Synchronous detection system for detecting weak radio astronomical signals
[NASA-CASE-INP-09832] c30 N71-23723

Dual frequency feed systems for Cassegrainian antennas
[NASA-CASE-NPO-13091-1] c09 N73-12214

Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c32 N74-11000

CASTING

Hydraulic apparatus for casting and molding of liquid polymers
[NASA-CASE-INP-07659] c06 N71-22975

CASTINGS

Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570

Castable high temperature refractory materials
[NASA-CASE-LEW-13080-1] c27 N80-29496

CATALYSIS

Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504

Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c25 N77-32255

Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c28 N80-10374

Diesel engine catalytic combustor system --- turbocharging
[NASA-CASE-LEW-12995-1] c37 N80-26659

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Catalyst for increased growth of boron carbide crystal whiskers
[NASA-CASE-INQ-03903] c15 N69-21922

Catalyst bed element removing tool
[NASA-CASE-XPR-00811] c15 N70-36901

Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-INP-00876] c28 N70-41311

Development of device for detecting hydrogen in ambient environments
[NASA-CASE-MFS-11537] c14 N71-20442

Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c25 N74-12813

Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c25 N80-16116

CATHETERIZATION

Transducer circuit design with single coaxial cable for input and output connections including incorporation into miniaturized catheter transducer
[NASA-CASE-ARC-10132-1] c09 N71-24597

- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
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Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
Cathode ray tube system for displaying ones and zeros in binary wave train
[NASA-CASE-IGS-04987] c08 N71-20571
Indexing mechanism for cathode array substitution in electron beam tube
[NASA-CASE-NPO-10625] c09 N71-26182
Color television system utilizing single gun current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618
Cathode ray tube with coating of phosphor and cobalt oxides
[NASA-CASE-ERC-10468] c09 N72-20206
Digital video system for displaying image and alphanumeric data on cathode ray tube
[NASA-CASE-NPO-11342] c09 N72-25248
Switching circuit for control of cathode ray tube beam with fast rise time for output signal
[NASA-CASE-KSC-10647-1] c10 N72-31273
Situational display system of cathode ray tubes to assist pilot in aircraft control
[NASA-CASE-ERC-10350] c14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c33 N75-27250
- CATHODES**
Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
Electronic cathodes for use in electron bombardment ion thrusters
[NASA-CASE-XLE-04501] c09 N71-23190
Design and characteristics of heat activated electric cell with anode made from one or more alkali metals and cathode made from oxidizing material
[NASA-CASE-LEW-11358] c03 N71-26084
Characteristics of ion rocket engine with combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693
- CATIONS**
Water insoluble, cationic permselective membrane
[NASA-CASE-NPO-11091] c18 N72-22567
- CAVITATION FLOW**
Semitoroidal diaphragm cavitating flow control valve
[NASA-CASE-XNP-09704] c12 N71-18615
- CAVITIES**
Black body radiometer having isothermally surrounded cavity for ultraviolet, visible, and infrared radiation
[NASA-CASE-NPO-10810] c14 N71-27323
Method for coating through-holes in ceramic substrates used in fabricating miniaturized electronic circuits
[NASA-CASE-XNP-05999] c15 N71-29032
Soil burrowing mole apparatus
[NASA-CASE-XNP-07169] c15 N73-32362
Method of constructing dish ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c37 N76-31524
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c31 N79-11249
Method and apparatus for producing concentric hollow spheres
[NASA-CASE-NPO-14596-1] c31 N79-24197
- CAVITY RESONATORS**
Helical coaxial resonator RF filter
[NASA-CASE-IGS-02816] c07 N69-24323
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
Thermally sensitive tuning probe for nullifying detuning effects in microwave cavity resonator of amplifier
[NASA-CASE-XNP-00449] c14 N70-35220
Holder for high frequency crystal resonators
[NASA-CASE-XNP-03637] c15 N71-21311
Superconductive resonant cavity for improved signal to noise ratio in communication signal
[NASA-CASE-MSC-12259-2] c07 N72-33146
Infrared tunable dye laser with nonlinear wavelength mixing crystal in optical cavity
[NASA-CASE-ABC-10463-1] c09 N73-32111
Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c36 N74-11313
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[NASA-CASE-GSC-12237-1] c36 N80-14384
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[NASA-CASE-LEW-11359] c03 N71-28579
Heat activated cell with aluminum anode
[NASA-CASE-LEW-11359-2] c03 N72-20034
Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c44 N77-14581
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Separation cell with permeable membranes for fluid mixture component separation
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[NASA-CASE-NPO-14597-1] c37 N79-23431
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[NASA-CASE-LEW-11855-1] c07 N78-25090
- CENTRIFUGES**
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[NASA-CASE-XAC-00399] c11 N70-34815
Liquid-gaseous centrifugal separator for weightlessness environment
[NASA-CASE-XLA-00415] c15 N71-16079
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[NASA-CASE-LAR-10194-1] c34 N74-30608
Fluid control apparatus and method
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Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MPS-23825-1] c14 N80-24342
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[NASA-CASE-HSC-14270-2] c27 N76-23426
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[NASA-CASE-XNP-06409] c06 N71-23230
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[NASA-CASE-XNP-03074] c06 N71-24740
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perfluoro ethers as intermediates for highly
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Chemical synthesis of thermally stable
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ion and tetraphenylphosphonitrilic units
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Apparatus and process for volumetrically
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[NASA-CASE-NPO-10070] c15 N71-27372

Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620

Process for preparing high molecular weight polyaryloxysilanes from lower molecular weight forms
[NASA-CASE-IMP-08674] c06 N71-28807

Organometallic compounds of niobium and tantalum useful for film deposition
[NASA-CASE-IMP-04023] c06 N71-28808

Description of method for making homogeneous foamed materials in weightless environment using materials having different physical properties
[NASA-CASE-IMP-09902] c15 N72-11387

Method to produce high purity copper fluoride by heating copper hydroxyfluoride powder and subjecting to flowing fluorine gas
[NASA-CASE-LEW-10794-1] c06 N72-17093

Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465

Development of apparatus for producing metal powder particles of controlled size
[NASA-CASE-XLB-06461-2] c17 N72-28535

Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547

Self-cycling fluid heater for heating continuous fluid stream to ultrahigh temperatures to facilitate chemical reactions
[NASA-CASE-MSC-15567-1] c33 N73-16918

Chemical process for production of polyisobutylene compounds and application as solid rocket propellant binder
[NASA-CASE-NPO-10893] c27 N73-22710

Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
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Utilization of lithium p-lithiophenoxide to prepare star polymers
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Intumescent composition, foamed product prepared therewith and process for making same
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[NASA-CASE-LAR-11144-1] c25 N75-26043

Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c27 N76-16228

Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c45 N76-31714

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[NASA-CASE-ARC-10992-1] c26 N78-32229

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[NASA-CASE-LAR-12054-2] c27 N79-19160

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[NASA-CASE-ARC-11248-1] c27 N79-22301

An improved synthesis of 2, 4, 8, 10-tetroxaspiro (5.5) undecane
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Improved synthesis of polyformals
[NASA-CASE-ARC-11244-1] c27 N79-30376

Preparation of perfluorinated isidoylamidoxines --- for eventual preparation of heat and chemical resistant polymers
[NASA-CASE-ARC-11267-1] c23 N80-26386

Preparation of perfluorinated 1,2,4-oxadiazoles --- heat and chemical resistant polymers
[NASA-CASE-ARC-11267-2] c25 N80-26407

Low temperature cross linking polyimides
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An improved synthesis of 2,4,8,10-tetroxaspiro (5.5) undecane
[NASA-CASE-ARC-11243-2] c23 N80-31472

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Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c25 N79-28253

Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c37 N80-10494

Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c31 N80-18231

Thermal reactor and process --- liquid silicon production from silane
[NASA-CASE-NPO-14369-1] c25 N80-20338

Solar-heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c44 N80-24747

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Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547

Chemical spot test for identifying magnesium or magnesium alloys used in aerospace applications
[NASA-CASE-LAR-10953-1] c17 N73-27446

CHEMILUMINESCENCE

Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c51 N80-16714

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An improved head for high speed spinner having a vacuum chuck --- holding silicon chips for etching
[NASA-CASE-NPO-15227-1] c37 N80-26661

Liquid immersion apparatus for minute articles
[NASA-CASE-MPS-25363-1] c31 N80-32585

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PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c33 N79-18224

CHIRP SIGNALS

Method for shaping and aiming narrow beams --- using a linear frequency chirp for sonar reception
[NASA-CASE-NPO-14632-1] c32 N80-12256

CHLORINATION

Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933

CHLOROPRENE RESINS

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c27 N74-12814

CHOKES

Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154

CHOKES (RESTRICTIONS)

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c07 N74-31270

CHOLESTEROL

Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c52 N75-15270

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Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c25 N74-26947

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Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c44 N78-19599

Improving the efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c44 N80-32850

CHROMIUM ALLOYS

Method of heat treating age-hardenable alloys
[NASA-CASE-IMP-01311] c26 N75-29236

CHROMIUM COMPOUNDS

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c44 N80-18557

CHROMOSOMES

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c52 N79-12694

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High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411

- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c35 N76-18402
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- Electrical feedthrough connection for printed circuit boards
[NASA-CASE-MNP-01483] c14 N69-27431
- Electric connector for printed cable to printed cable or to printed board
[NASA-CASE-MNP-00369] c09 N70-36494
- Electrical connection for printed circuits on common board, using bellows principle in rivet
[NASA-CASE-MNP-05082] c15 N70-41960
- Electrical spot terminal assembly for printed circuit boards
[NASA-CASE-MPO-10034] c15 N71-17685
- Development and characteristics of polyimide impregnated laminates with fiberglass cloth backing for application as printed circuit boards
[NASA-CASE-MPS-20408] c18 N73-12604
- Techniques for packaging and mounting printed circuit boards
[NASA-CASE-MPS-21919-1] c10 N73-25243
- Tool for use in lifting pin supported objects
[NASA-CASE-MPO-13157-1] c37 N74-32918
- Shock absorbing mount for electrical components
[NASA-CASE-MPO-13253-1] c37 N75-18573
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c37 N76-27567
- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c33 N79-10339
- CIRCUIT BREAKERS**
- Interrupter switching device utilizing electrodes and mercury filled capillary tubes in which current flow vaporizes mercury as circuit breaker
[NASA-CASE-MNP-02251] c12 N71-20896
- Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-IKS-03381] c09 N71-22796
- Electrical circuit selection device for simulating stage separation of flight vehicle
[NASA-CASE-IKS-04631] c10 N71-23663
- Electromagnetic braking arrangement for controlling rotor rotation in electric motor
[NASA-CASE-MNP-06936] c15 N71-24695
- Relay circuit breaker with magnetic latching to provide conductive and nonconductive paths for current devices
[NASA-CASE-MSC-11277] c09 N71-29008
- Multiple circuit protector device
[NASA-CASE-MNS-02744] c33 N75-27249
- CIRCUIT DIAGRAMS**
- Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-MNP-04183] c09 N69-24329
- Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334
- Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 N69-27463
- Solid state switching circuit design to increase current capacity of low rated relay contacts
[NASA-CASE-MNP-09228] c09 N69-27500
- Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
- Frequency shift keyed demodulator - circuit diagrams
[NASA-CASE-XGS-02889] c07 N71-11282
- Difference indicating circuit used in conjunction with device measuring gravitational fields
[NASA-CASE-MNP-08274] c10 N71-13537
- High voltage transistor circuit
[NASA-CASE-MNP-06937] c09 N71-19516
- Control of fusion welding through use of thermocouple wire
[NASA-CASE-MPS-06074] c15 N71-20393
- Circuitry for developing autocorrelation function continuously within signal receiving period
[NASA-CASE-MNP-00746] c07 N71-21476
- Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-IKS-03381] c09 N71-22796
- Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASE-GSC-10735-1] c10 N71-26085
- Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ABC-10042-2] c10 N72-11256
- Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c77 N75-20140
- Symmetrical odd-modulus frequency divider
[NASA-CASE-MPO-13426-1] c33 N75-31330
- Trielectrode capacitive pressure transducer
[NASA-CASE-ABC-10711-2] c33 N76-21390
- Frequency discriminator and phase detector circuit
[NASA-CASE-MPO-11515-1] c33 N77-13315
- CIRCUIT PROTECTION**
- Use of silicon controlled rectifier shorting circuit to protect thermoelectric generator source from thermal destruction
[NASA-CASE-IGS-04808] c03 N69-25146
- Spark gap type protective circuit for fast sensing and removal of overvoltage conditions
[NASA-CASE-IAC-08981] c09 N69-39897
- Development of in-line fuse device for protection of electric circuits from excessive currents and voltages
[NASA-CASE-MSC-12135-1] c09 N71-12526
- Overcurrent protecting circuit for push-pull transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 N71-13531
- Solder coating process for printed copper circuit protection
[NASA-CASE-MNP-01599] c09 N71-20705
- Power supply with overload protection for series stage transistor
[NASA-CASE-MNS-00913] c10 N71-23543
- Selective plating of etched circuits without removing previous plating
[NASA-CASE-IGS-03120] c15 N71-24047
- Circuit design for failure sensing and protecting low voltage electric generator and power transmission networks
[NASA-CASE-GSC-10114-1] c10 N71-27366
- Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129
- Current protection equipment for saturable core transformers
[NASA-CASE-ERC-10075-2] c09 N72-22196
- Development of process for forming insulating layer between two electrical conductor or semiconductor materials
[NASA-CASE-LEW-10489-1] c15 N72-25447
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c33 N74-14956
- Overvoltage protection network
[NASA-CASE-ABC-10197-1] c33 N74-17929
- Shock absorbing mount for electrical components
[NASA-CASE-MPO-13253-1] c37 N75-18573
- Multiple circuit protector device
[NASA-CASE-MNS-02744] c33 N75-27249
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c44 N78-14625
- Improved base drive for paralleled inverter systems
[NASA-CASE-MPO-14163-1] c37 N78-22376
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-MPO-14316-1] c33 N79-26312
- Fused switch
[NASA-CASE-MNS-01244-1] c33 N79-33393
- CIRCUIT RELIABILITY**
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c60 N79-27865

CIRCUITS

Distribution of currents to circuits using electrical adaptor
[NASA-CASE-XLA-01288] c09 N69-21470

Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-IGS-00174] c08 N70-34743

Electronic circuit system for controlling electric motor speed
[NASA-CASE-INP-01129] c09 N70-38712

Starting circuit design for initiating and maintaining arcs in vapor lamps
[NASA-CASE-INP-01058] c09 N71-12540

Voltage drift compensation circuit for analog-to-digital converter
[NASA-CASE-INP-04780] c08 N71-19687

High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASE-ILX-02008] c09 N71-21583

Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
[NASA-CASE-IGS-03390] c03 N71-23187

Circuits for controlling reversible dc motor
[NASA-CASE-INP-07477] c09 N71-26092

Device for rapid adjustment and maintenance of temperature in electronic components
[NASA-CASE-INP-02792] c14 N71-28958

Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-INP-00745] c10 N71-28960

Development of electric circuit for production of different pulse width signals
[NASA-CASE-XLA-07788] c09 N71-29139

Sensing circuit for instantaneous reaction to power overloads
[NASA-CASE-GSC-10667-1] c10 N71-33129

Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-PRC-10036] c09 N72-22200

Development of thermal to electric power conversion system using solid state switches of electrical currents to load for Seebeck effect compensation
[NASA-CASE-NPO-11388] c03 N72-23048

Inductive-capacitive loops as load insensitive power converters
[NASA-CASE-ERC-10268] c09 N72-25252

Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 N72-25262

Precision surface cutter for screen circuit negatives and other microcircuits
[NASA-CASE-XLA-09843] c15 N72-27485

Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241

Active tuned circuits for microelectronic construction
[NASA-CASE-GSC-11340-1] c10 N72-33230

Thermochromic compositions for detecting heat levels in electronic circuits and devices
[NASA-CASE-NPO-10768-1] c14 N73-14428

Electrodeless lamp circuit driven by induction
[NASA-CASE-NFS-21214-1] c09 N73-30181

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LRW-11581-1] c54 N75-13531

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479

High voltage distributor
[NASA-CASE-GSC-11849-1] c33 N76-16332

Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c35 N78-22347

Frequency translating phase conjugation circuit for active retrodirective antenna array
[NASA-CASE-NPO-14536-1] c32 N79-14277

Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c33 N79-23347

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c33 N79-24257

CIRCULAR CONES
Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-INP-00462] c14 N70-34298

CIRCULAR CYLINDERS
Modulating and controlling intensity of light beam from high temperature source by

servocontrolled rotating cylinders
[NASA-CASE-XMS-04300] c09 N71-19479

CIRCULAR POLARIZATION
Left and right hand circular electromagnetic polarization excitation by phase shifter and hybrid networks
[NASA-CASE-GSC-10021-1] c09 N71-24595

Planar array circularly polarized antenna with wall slot excitation
[NASA-CASE-NPO-10301] c07 N72-11148

Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235

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Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c31 N74-14133

CIRCULATORS (PHASE SHIFT CIRCUITS)
Development of electromagnetic wave transmission line circulator and application to parametric amplifier circuits
[NASA-CASE-INP-02140] c09 N71-23097

Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c36 N80-18372

CLAMPING CIRCUITS
Clamped amplifier circuit for horizon scanner enabling amplification and accurate measurement of specified parameters
[NASA-CASE-IGS-01784] c10 N71-20782

CLAMPS
Portable device for aligning surfaces of two adjacent wall or sheet sections for joining at point of junction
[NASA-CASE-INP-01452] c15 N70-41371

Hydraulic clamping of sheet stock specimens
[NASA-CASE-XLA-05100] c15 N71-17696

Inertial component clamping assembly design for spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813

Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-INP-02341] c15 N71-21531

Quick attach mechanism for moving or stationary wires, ropes, or cables
[NASA-CASE-XPR-05421] c15 N71-22994

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White paint production by heating impure aluminum silicate clay having low solar absorptance
[NASA-CASE-INP-02139] c18 N71-24184

CLEAN ROOMS
Environmentally controlled suit for working in sterile chamber
[NASA-CASE-LAR-10076-1] c05 N73-20137

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Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849

Noncontaminating swab with absorbent end covered with netted envelope to prevent egress of absorbent material
[NASA-CASE-NFS-18100] c15 N72-11390

CLEANING
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819

System and method for refurbishing and processing parachutes
[NASA-CASE-MSC-11042-1] c02 N78-22026

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[NASA-CASE-ERC-10081] c14 N72-28437

Clear air turbulence detector
[NASA-CASE-NFS-21244-1] c36 N75-15028

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Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157

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[NASA-CASE-ERC-10338] c04 N72-33072

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 [NASA-CASE-LEW-11390-3] c25 N76-29379
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 [NASA-CASE-GSC-12081-2] c52 N77-26796
 Automated clinical system for chromosome analysis
 [NASA-CASE-NPO-13913-1] c52 N79-12694

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Time synchronization system for synchronizing
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 to determine distance between moving airborne
 vehicle and fixed ground station
 [NASA-CASE-XNP-01501] c21 N70-41930
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 Lead-oxygen dc power supply system having a
 closed loop oxygen and water system
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 [NASA-CASE-XLA-03213] c05 N71-11207
 Spacecraft with artificial gravity and earthlike
 atmosphere
 [NASA-CASE-LEW-11101-1] c31 N73-32750
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 [NASA-CASE-HSC-14771-1] c54 N77-32722
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 anode therefor --- oxygen recovery in
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 [NASA-CASE-HSC-16394-1] c25 N80-26406

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 canisters under high vacuum conditions
 [NASA-CASE-XLA-01446] c15 N71-21528
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 [NASA-CASE-NPO-14936-1] c47 N80-26992

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Development and characteristics of apparatus for
 measuring intensity of electric field in
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 [NASA-CASE-KSC-10730-1] c14 N73-32318
 Electric field measuring and display system ---
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Surfactant-assisted liquefaction of particulate
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Coal desulfurization process
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 [NASA-CASE-XLA-06199] c15 N71-24875
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 Cathode ray tube with coating of phosphor and
 cobalt oxides
 [NASA-CASE-BRC-10468] c09 N72-20206
 Durable antistatic coating for
 polymethylmethacrylate
 [NASA-CASE-NPO-13867-1] c27 N78-14164
 Edge coating of flat wires
 [NASA-CASE-XNP-05757-1] c31 N79-21227

COAXIAL CABLES

Design and development of device for cooling
 inner conductor of coaxial cable
 [NASA-CASE-XNP-09775] c09 N71-20445
 Design and development of electric connectors
 for rigid and semirigid coaxial cables
 [NASA-CASE-NXP-04732] c09 N71-20851
 Transducer circuit design with single coaxial
 cable for input and output connections
 including incorporation into miniaturized
 catheter transducer
 [NASA-CASE-ARC-10132-1] c09 N71-24597
 Collapsible antenna boom and coaxial
 transmission line having inflatable inner tube
 [NASA-CASE-MPS-20068] c07 N71-27191
 Vibration isolation system, using coaxial
 helical compression springs
 [NASA-CASE-NPO-11012] c15 N72-11391
 Development and characteristics of hermetically
 sealed coaxial package for containing
 microwave semiconductor components
 [NASA-CASE-GSC-10791-1] c15 N73-14469
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 utilizing a coaxial cable under pressure
 [NASA-CASE-NPO-13138-1] c33 N74-17927
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 [NASA-CASE-NPO-13504-1] c33 N75-30430
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 [NASA-CASE-NPO-14229-1] c33 N80-18285

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High strength, corrosion resistant cobalt-based alloys for aerospace structures
[NASA-CASE-XLE-00726] c17 N71-15644

High temperature cobalt-base alloy resistant to corrosion by liquid metals and to sublimation in vacuum environment
[NASA-CASE-XLE-02991] c17 N71-16025

High temperature ferromagnetic cobalt-base alloy for electrical power generating equipment
[NASA-CASE-XLE-03629] c17 N71-23248

Cobalt-tungsten alloys with superior strength at elevated temperatures
[NASA-CASE-LEW-10436-1] c17 N73-32415

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Cathode ray tube with coating of phosphor and cobalt oxides
[NASA-CASE-ERC-10468] c09 N72-20206

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Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-IPR-04147] c11 N71-10748

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Design and development of encoder/decoder system to generate binary code which is function of outputs of plurality of bistable elements
[NASA-CASE-NPO-10342] c10 N71-33407

Biorthogonal encoder with modular design
[NASA-CASE-NPO-10629] c08 N72-18184

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c32 N74-32598

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c62 N76-31946

Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c33 N77-31404

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[NASA-CASE-XNP-02748] c08 N71-22749

Apparatus and digital technique for coding rate data
[NASA-CASE-LAR-10128-1] c08 N73-20217

Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c60 N76-23850

Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239

Coefficient of Friction

Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c35 N76-31489

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[NASA-CASE-LAR-11900-1] c37 N79-14382

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[NASA-CASE-GSC-10565-1] c06 N72-25149

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[NASA-CASE-XNP-05219] c16 N71-15550

Development of focused image holography with extended sources
[NASA-CASE-ERC-10019] c16 N71-15551

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Hybrid holographic system using reference, transmitted, and reflected beams simultaneously
[NASA-CASE-MPS-20074] c16 N71-15565

Development of apparatus for amplitude modulation of diode laser by periodic discharge of direct current power supply
[NASA-CASE-XNS-04269] c16 N71-22895

Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994

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[NASA-CASE-LAR-10311-1] c16 N73-16536

Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c35 N74-11284

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c36 N74-20009

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425

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[NASA-CASE-NPO-13346-1] c36 N76-29575

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c36 N80-24602

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[NASA-CASE-MSC-14649-1] c33 N76-16331

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Cold cathode discharge tube with pressurized gas cell for meteoroid detection in space
[NASA-CASE-LAR-10483-1] c14 N73-32327

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Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071

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Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c37 N78-28459

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Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLE-05641-1] c15 N71-26346

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Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152

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[NASA-CASE-LAR-11071-1] c35 N75-19611

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[NASA-CASE-MSC-16433-1] c52 N78-27750

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[NASA-CASE-GSC-11262-1] c36 N74-21091

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[NASA-CASE-ARC-10932-1] c74 N76-22993

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[NASA-CASE-LEW-12164-1] c36 N77-32478

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[NASA-CASE-LAR-11370-1] c35 N80-28686

Collimated beam manifold and method for using the same --- laser beams
[NASA-CASE-MPS-25312-1] c74 N80-34251

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X ray collimating structure for focusing radiation directly onto detector
[NASA-CASE-XHQ-04106] c14 N70-40240

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[NASA-CASE-MPS-20546-2] c14 N73-30389

Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MPS-20932-1] c35 N75-19616

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Cooperative Doppler radar system for avoiding midair collisions
[NASA-CASE-LAR-10403] c21 N71-11766

Satellite aided aircraft collision avoidance system effective for large number of aircraft
[NASA-CASE-ERC-10090] c21 N71-24948

Vertically stacked collinear array of independently fed omnidirectional antennas for use in collision warning systems on commercial aircraft
[NASA-CASE-LAR-10545-1] c09 N72-21244

Economical satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-ERC-10419] c21 N72-21631

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[NASA-CASE-HQH-10703] c21 N73-13643

Development and characteristics of electronic signalling system and data processing equipment for warning systems to avoid midair collisions between aircraft
[NASA-CASE-LAR-10717-1] c21 N73-30641

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[NASA-CASE-ERC-10419-1] c03 N75-30132

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[NASA-CASE-XLE-00817] c28 N70-33265

COLLOIDAL PROPELLANTS

Colloidal particle generator for electrostatic

engine for propelling space vehicles
[NASA-CASE-XLE-00817] c28 N70-33265

Low density and low viscosity magnetic
propellant for use under zero gravity conditions
[NASA-CASE-XLE-01512] c12 N70-40124

Electrostatic microthrust propulsion system with
annular slit colloid thruster
[NASA-CASE-GSC-10709-1] c28 N71-25213

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--- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c74 N78-13874

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magnesium alloys used in aerospace applications
[NASA-CASE-LAB-10953-1] c17 N73-27446

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Color photointerpretation of interference colors
reflected from thin film oil-coated components
in moving gases for gas flow visualization
[NASA-CASE-INP-01779] c12 N71-20815

Method of and means for retarding dye fading
during archival storage of developed color
photographic film
[NASA-CASE-MFS-23250-1] c35 N80-18362

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Color television system utilizing single gun
current sensitive color cathode ray tube
[NASA-CASE-ERC-10098] c09 N71-28618

Color television system for allowing monochrome
television camera to produce color pictures
[NASA-CASE-MSC-12146-1] c07 N72-17109

Video tape recorder with scan conversion
playback for color television signals
[NASA-CASE-NPO-10166-1] c07 N73-22076

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[NASA-CASE-NPO-10166-2] c35 N76-16391

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[NASA-CASE-MSC-14683-1] c74 N77-18893

Full color hybrid display for aircraft simulators
--- landing aids
[NASA-CASE-ARC-10903-1] c09 N78-18083

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perceptiveness of individuals
[NASA-CASE-KSC-10278] c05 N72-16015

COLUMNS (PROCESS ENGINEERING)
Micropacked column for rapid chromatographic
analysis using low gas flow rates
[NASA-CASE-INP-04816] c06 N69-39936

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Lightweight structural columns --- for truss
structures
[NASA-CASE-LAR-12095-1] c39 N77-27432

Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c37 N78-33446

COMBINATORIAL ANALYSIS
Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437

COMBUSTION
Device for detection of combustion light
preceding gaseous explosions
[NASA-CASE-LAR-10739-1] c14 N73-16484

COMBUSTION CHAMBERS
Rocket chamber leak test fixture using tubular
plug
[NASA-CASE-XFR-09479] c14 N69-27503

Propellant injectors for rocket combustion
chambers
[NASA-CASE-XLE-00103] c28 N70-33241

Metal ribbon wrapped outer wall for
regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411

Apparatus for cooling and injecting hypergolic
propellants into combustion chamber of small
rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535

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devices
[NASA-CASE-INP-00249] c28 N70-38249

Fabrication method for lightweight
regeneratively cooled combustion chamber of
channel construction
[NASA-CASE-XLE-00150] c28 N70-41818

Rocket combustion chamber stability by
controlling transverse instability during
propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507

Regenerative cooling system for rocket
combustion chamber using coolant tubes in
convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-23968

Rocket engine injector orifice to accommodate
changes in density, velocity, and pressure,
thereby maintaining constant mass flow rate of
propellant into rocket combustion chamber
[NASA-CASE-XLE-03157] c28 N71-24736

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within combustion chambers
[NASA-CASE-NPO-11095] c15 N72-25455

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[NASA-CASE-LEW-12137-1] c25 N78-10224

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[NASA-CASE-LEW-11877-1] c34 N78-27357

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[NASA-CASE-NPO-13958-1] c25 N79-11151

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powdered fuel and a stream of powdered
oxidizer to a combustion chamber for a
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[NASA-CASE-MFS-23904-1] c20 N79-13077

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and cooling systems
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[NASA-CASE-NPO-14273-1] c37 N79-14388

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[NASA-CASE-MFS-23460-1] c12 N79-26075

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combustor
[NASA-CASE-ARC-10814-2] c07 N80-26298

Diesel engine catalytic combustor system ---
turbocharging
[NASA-CASE-LEW-12995-1] c37 N80-26659

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control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819

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efficiency of rocket engines
[NASA-CASE-XLE-00111] c28 N70-38199

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engine with controlled rate of thrust buildup
operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784

Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c37 N79-11405

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combustion products from ambient surroundings
generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922

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products for testing of fire detection system
[NASA-CASE-GSC-11095-1] c14 N72-10375

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[NASA-CASE-NPO-13402-1] c37 N76-18457

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[NASA-CASE-NPO-13958-1] c25 N79-11151

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Rocket combustion chamber stability by
controlling transverse instability during
propellant combustion
[NASA-CASE-XLE-04603] c33 N71-21507

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with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289

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command module
[NASA-CASE-MSC-12279] c15 N72-17450

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[NASA-CASE-NPO-11161] c08 N72-25207

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[NASA-CASE-INP-00746] c07 N71-21476
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[NASA-CASE-MSC-12259-2] c07 N72-33146

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[NASA-CASE-INP-03498] c15 N71-15986
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[NASA-CASE-NPO-13531-1] c36 N76-24553
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[NASA-CASE-ARC-11256-1] c37 N79-23432
High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c32 N80-18252

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[NASA-CASE-INP-01306] c07 N71-20814
Binary data decoding device for use at receiving end of communication channel
[NASA-CASE-NPO-10118] c07 N71-24741
Characteristics of data-aided carrier tracking loop used for tracking carrier in angle modulated communications system
[NASA-CASE-NPO-11282] c10 N73-16205
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[NASA-CASE-GSC-10087-4] c07 N73-20174
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[NASA-CASE-MSC-14065-1] c32 N74-26654

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[NASA-CASE-XLA-00210] c30 N70-40309
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[NASA-CASE-XGS-02607] c31 N71-23009
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[NASA-CASE-ERC-10419-1] c03 N75-30132
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[NASA-CASE-NPO-13836-1] c32 N78-15323

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[NASA-CASE-IAC-00060] c09 N70-39915

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Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
[NASA-CASE-XGS-08266] c14 N69-27432
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[NASA-CASE-NPO-10743] c08 N72-21199

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[NASA-CASE-MPS-14322] c08 N71-18692
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[NASA-CASE-LAR-10523-1] c14 N72-22444
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[NASA-CASE-GSC-12168-1] c31 N79-17029

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[NASA-CASE-MSC-18498-1] c60 N80-30050

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[NASA-CASE-XLE-00228] c17 N70-38490
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[NASA-CASE-XLE-03925] c18 N71-22894
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[NASA-CASE-NPO-11190] c03 N71-34044
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[NASA-CASE-LEW-10424-2-2] c18 N72-25539
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[NASA-CASE-MPS-20433] c15 N72-28496
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[NASA-CASE-LEW-11930-1] c24 N76-22309
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[NASA-CASE-LEW-11676-1] c37 N76-22541
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COMPOSITE PROPELLANTS

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[NASA-CASE-LEW-12933-1] c23 N79-24061

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[NASA-CASE-LAR-12099-1] c27 N80-16158

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[NASA-CASE-LAR-12642-1] c27 N80-18179

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[NASA-CASE-MSC-18390-1] c37 N80-18398

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[NASA-CASE-MPS-23626-1] c24 N80-26388

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organic Cu/II/ chelate catalytic additive
[NASA-CASE-LAR-10173-1] c27 N71-14090

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[NASA-CASE-NPO-14477-1] c28 N80-28536

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lightweight structures usable in space
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[NASA-CASE-ILA-01043] c28 N71-10780

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spacecraft to serve as anti-meteoroid device
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selective absorption of solar energy
[NASA-CASE-MPS-23518-3] c44 N80-16452

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[NASA-CASE-GSC-11889-1] c35 N76-16393

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to control valve handling large liquid flows
[NASA-CASE-XHQ-01208] c15 N70-35409

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fluid in liquid, gas, or liquid and gas phases
[NASA-CASE-XLE-00143] c14 N70-36618

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COMPRESSING

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temperature refrigeration based on gas
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[NASA-CASE-NPO-10832] c14 N72-21405

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[NASA-CASE-ARC-10461-1] c44 N74-33379

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[NASA-CASE-LAR-11900-1] c37 N79-14382

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Test equipment to prevent buckling of small
diameter specimens during compression tests
[NASA-CASE-LAR-10440-1] c14 N73-32323

Anti-buckling fatigue test assembly --- for
subjecting metal specimen to tensile and
compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c09 N74-19528

COMPRESSOR BLADES

Process for welding compressor and turbine
blades to rotors and discs of jet engines
[NASA-CASE-LEW-10533-1] c15 N73-28515

COMPRESSORS

Thermal pump-compressor for converting solar
energy
[NASA-CASE-ILA-00377] c33 N71-17610

Self-energized plasma compressor
[NASA-CASE-MPS-22145-2] c75 N76-17951

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c35 N78-10428

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c37 N80-26658

COMPUTATION

Apparatus for computing square roots
[NASA-CASE-XGS-04768] c08 N71-19437

Ruler for making navigational computations
[NASA-CASE-INP-01458] c04 N78-17031

COMPUTER COMPONENTS

Computer circuit performing both counting and
shifting logic operations also capable of
miniaturization and integration in basic
circuits
[NASA-CASE-INP-01753] c08 N71-22897

Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c60 N76-17691

Common data buffer system
[NASA-CASE-KSC-11048-1] c60 N79-23674

Computer circuit card puller
[NASA-CASE-PBC-11042-1] c37 N80-20589

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-1] c60 N80-21987

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c33 N80-33679

COMPUTER DESIGN

Two-dimensional radiant energy array computers
and computing devices
[NASA-CASE-GSC-11839-1] c60 N77-14751

COMPUTER GRAPHICS

System for digitizing graphic displays
[NASA-CASE-NPO-10745] c08 N72-22164

COMPUTER NETWORKS

High-speed data link for moderate distances and
noisy environments
[NASA-CASE-NPO-14152-1] c32 N80-18252

COMPUTER PROGRAMMING

Encoders designed to generate comma free
biorthogonal Reed-Muller type code comprising
conversion of 64 6-bit words into 64 32-bit
data for communication purposes
[NASA-CASE-NPO-10595] c10 N71-25917

Priority interrupt system --- comprised of four
registers
[NASA-CASE-NPO-13067-1] c60 N76-18800

COMPUTER PROGRAMS

Self testing and repairing computer comprising
control and diagnostic unit and rollback
points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633

Development of computer program for estimating
reliability of self-repair and fault-tolerant
systems with respect to selected system and
mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495

Development of flight simulator system to show
position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206

COMPUTER STORAGE DEVICES

Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-INP-05835] c08 N71-12504

Binary sequence detector with few memory elements and minimized logic circuit complexity
[NASA-CASE-INP-05415] c08 N71-12505

Pulsed magnetic core memory element with blocking oscillator feedback for interrogation without loss of digital information
[NASA-CASE-IGS-03303] c08 N71-18595

Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
[NASA-CASE-INP-01318] c10 N71-23033

Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624

Serial digital decoder design with square circuit matrix and serial memory storage units
[NASA-CASE-NPO-10150] c08 N71-24650

Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-INP-01466] c10 N71-26434

Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135

Memory device employing semiconductor and ferroelectric properties of single crystal barium titanate
[NASA-CASE-ERC-10307] c08 N72-21198

Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914

COMPUTER SYSTEMS DESIGN

Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c62 N74-14920

Computer interface system
[NASA-CASE-NPO-13428-1] c60 N77-12721

COMPUTER TECHNIQUES

Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245

Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAB-11883-1] c09 N77-27131

Computerized system for translating a torch head
[NASA-CASE-MPS-23620-1] c37 N79-10421

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c35 N79-27479

COMPUTERIZED SIMULATION

Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507

Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c35 N78-28411

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MPS-23052-2] c74 N79-13855

COMPUTERS

Telemetry data unit to form multibit words for use between demodulator and computer
[NASA-CASE-INP-09225] c09 N69-24333

Data compression processor for monitoring analog signals by sampling procedure
[NASA-CASE-NPO-10068] c08 N71-19288

Communication between computers using two identical communications links
[NASA-CASE-NPO-11161] c08 N72-25207

CONCAVITY

Concave grating spectrometer for use in near and vacuum ultraviolet regions
[NASA-CASE-IGS-01036] c14 N70-40003

CONCENTRATORS

Concentrator device for controlling direction of solar energy onto energy converters
[NASA-CASE-XLE-01716] c09 N70-40234

Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c44 N76-14602

Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c44 N77-32583

Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c44 N79-11471

Solar cell module
[NASA-CASE-NPO-14467-1] c44 N79-31753

Solar concentrator
[NASA-CASE-MPS-23727-1] c44 N80-14473

CONDENSATES

Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-INP-09699] c06 N71-24607

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139

CONDENSERS (LIQUIFIERS)

Condenser-separator for dehumidifying air utilizing sintered metal surface
[NASA-CASE-XLA-08645] c15 N69-21465

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139

CONDENSING

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c27 N79-22300

CONDUCTING FLUIDS

Multiducted electromagnetic pump for conductive liquids
[NASA-CASE-NPO-10755] c15 N71-27084

Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MPS-19193-1] c37 N75-19686

CONDUCTIVE HEAT TRANSFER

Measuring conductive heat flow and thermal conductivity of laminar gas stream in cylindrical plug to simulate atmospheric reentry
[NASA-CASE-XLE-00266] c14 N70-34156

Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439

Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c36 N77-25502

Automatic thermal switch --- Space Shuttle equipment bay temperature control
[NASA-CASE-GSC-12415-1] c34 N80-18338

Automatic thermal switch
[NASA-CASE-GSC-12553-1] c33 N80-21671

CONDUCTORS

Support for flexible conductor cable between drawers or racks holding electronic equipment and cabinet assembly housing drawers or racks
[NASA-CASE-INP-07587] c15 N71-18701

Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c24 N75-13032

CONES

Black body radiator design with temperature sensing and cavity heat source cone winding
[NASA-CASE-INP-09701] c14 N71-26475

CONFINEMENT

Observation window for internal gas confining chamber
[NASA-CASE-NPO-10890] c11 N73-12265

CONICAL BODIES

Conical valve plug for use with reactive cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859

Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127

Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130

CONICAL SCANNING

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c32 N79-13214

CONICAL SHELLS

Capacitance measuring device for determining flare accuracy on tapered tubes
[NASA-CASE-XKS-03495] c14 N69-39785

Foldable, double cone and parabolic reflector system for solar ray concentration
[NASA-CASE-XLA-04622] c03 N70-41580

Rotary spindle lathe attachments for machining geometrical cones
[NASA-CASE-XMS-04292] c15 N71-22722

CONJUGATES

Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c32 N79-24210

CONNECTORS

Expanding and contracting connector strip for

CONSCIOUSNESS

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solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539

Design and development of quick release connector
[NASA-CASE-XLA-01141] c15 N71-13789

Development and characteristics of strainer for
flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389

Process for making RF shielded cable connector
assemblies and resulting structures
[NASA-CASE-GSC-11215-1] c09 N73-28083

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c31 N79-21225

CONSCIOUSNESS
Development of apparatus and method for
quantitatively measuring brain activity as
automatic indication of sleep state and level
of consciousness
[NASA-CASE-MSC-13282-1] c05 N71-24729

CONSOLES
Telephone multiline signaling using common
signal pair
[NASA-CASE-KSC-11023-1] c32 N79-23310

CONSTANTS
Spring operated accelerator and constant force
spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417

CONSTRAINTS
Three stage motion restraining mechanism for
restraining and damping three dimensional
vibrational movement of gimballed package
during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694

Cable guide and restraint device for reefing
tubes in uniform banner
[NASA-CASE-LAR-10129-1] c15 N73-25512

Development of restraint system for securing
personnel to ergometer while exercising under
weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377

Reefing system
[NASA-CASE-LAR-10129-2] c37 N74-20063

Restraining mechanism
[NASA-CASE-MSC-13054] c54 N78-17677

CONSTRUCTION MATERIALS
Apparatus and method of assembling building
blocks by folding pre-cut flat sheets of
material during on-site construction
[NASA-CASE-MSC-12233-1] c15 N72-25454

Development of construction block in form of
container folded from flat sheet and filled
with solid material for architectural purposes
[NASA-CASE-MSC-12233-2] c32 N73-13921

CONTACT POTENTIALS
Lightweight, rugged, inexpensive satellite
battery for producing electrical power from
ionosphere using electrodes with different
contact potentials
[NASA-CASE-XGS-01593] c03 N70-35408

CONTAINERLESS BELTS
Method of crystallization --- in gravity-free
environments
[NASA-CASE-MFS-23001-1] c76 N77-32919

CONTAINERS
Manufacture of fluid containers from fused
coated polyester sheets having resealable septum
[NASA-CASE-NPO-10123] c15 N71-24835

Method for locating leaks in hermetically sealed
containers
[NASA-CASE-BRC-10045] c15 N71-24910

Quantitative liquid measurements in container by
resonant frequencies
[NASA-CASE-XNP-02500] c18 N71-27397

CONTAMINANTS
Fluid transferring system design for purging
toxic, corrosive, or noxious fluids and fumes
from materials handling equipment for
cleansing and accident prevention
[NASA-CASE-XNS-01905] c12 N71-21089

CONTAMINATION
Emission spectroscopy method for contamination
monitoring of inert gas metal arc welding
[NASA-CASE-XNP-02039] c15 N71-15871

Contamination free separation nut eliminating
combustion products from ambient surroundings
generated by squib firing
[NASA-CASE-XGS-01971] c15 N71-15922

Apparatus and process for volumetrically
dispensing reagent quantities of volatile
chemicals for small batch reactions

[NASA-CASE-NPO-10070] c15 N71-27372

Portable tester for monitoring bacterial
contamination by adenosine triphosphate light
reaction
[NASA-CASE-GSC-10879-1] c14 N72-25413

Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c35 N79-28527

CONTINUOUS RADIATION
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c39 N78-15512

Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c35 N79-10390

CONTINUOUS SPECTRA
Stark effect spectrophone for continuous
absorption spectra monitoring
[NASA-CASE-NPO-15102-1] c33 N80-25538

CONTINUOUS WAVE LASERS
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c36 N75-27364

Continuous plasma laser --- method and apparatus
for producing intense, coherent, monochromatic
light from low temperature plasma
[NASA-CASE-XNP-04167-3] c36 N77-19416

Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c36 N80-24602

CONTINUOUS WAVE RADAR
Phase locked loop with sideband rejecting
properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680

PH/CW radar system
[NASA-CASE-MFS-22234-1] c32 N79-10264

CONTOURS
Describing device for surveying contour of
surface using X-Y plotter and traveling
transducer
[NASA-CASE-XLA-08646] c14 N71-17586

Processing system for semiperiodic electrical
signals to produce real time contoured display
[NASA-CASE-MSC-13407-1] c10 N72-20225

Variable contour securing system
[NASA-CASE-MSC-16270-1] c37 N78-27423

Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c74 N78-27904

Contour detector and data acquisition system for
the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N79-10724

Contour measurement system
[NASA-CASE-MFS-23726-1] c43 N79-26439

Cork-resin ablative insulation for complex
surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c24 N80-26388

CONTROL
Valve assembly for controlling simultaneously
more than one fluid flow, and having stable
qualities under loads
[NASA-CASE-XNS-05890] c09 N71-23191

Control system for pressure balance device used
in calibrating pressure gages
[NASA-CASE-XNP-04134] c14 N71-23755

Failure detection and control means for improved
drift performance of a gimballed platform system
[NASA-CASE-MFS-23551-1] c04 N76-26175

Improved power factor control system for ac
induction motors
[NASA-CASE-MFS-23988-1] c33 N79-25315

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c33 N80-33679

CONTROL BOARDS
Ionization control system design for monitoring
separately located ion gage pressures on
vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090

CONTROL DATA (COMPUTERS)
Computer interface system
[NASA-CASE-NPO-13428-1] c60 N77-12721

CONTROL EQUIPMENT
Stepping motor control apparatus exciting
windings in proper time sequence to cause
motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772

Voltage drift compensation circuit for
analog-to-digital converter
[NASA-CASE-XNP-04780] c08 N71-19687

Development of attitude control system for
vertical takeoff aircraft using reaction
nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570

Device for controlling rotary potentiometer
mounted on aircraft steering wheel or aileron

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[NASA-CASE-IAC-10019] c15 N71-23809
Controlled release device for use in launching
rockets or missiles
[NASA-CASE-IKS-03338] c15 N71-24043
Circuits for controlling reversible dc motor
[NASA-CASE-INP-07477] c09 N71-26092
Digital memory system with multiple switch cores
for driving each word location
[NASA-CASE-INP-01466] c10 N71-26434
Fluid control jet amplifiers
[NASA-CASE-XLE-09341] c12 N71-28741
System for control of variable signal generator
[NASA-CASE-NPO-11064] c07 N72-11150
Solid state remote circuit selector switching
circuit
[NASA-CASE-LRW-10387] c09 N72-22201
Development of device for simulating charge and
discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241
Interferometer prism and control system for
precisely determining direction to remote
light source
[NASA-CASE-ARC-10278-1] c14 N73-25463
Digital controller for a Baum folding machine
--- providing automatic counting and machine
shutoff
[NASA-CASE-LAR-10688-1] c37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c37 N74-21065
Variable ratio mixed-mode bilateral master-slave
control system for shuttle remote manipulator
system
[NASA-CASE-MSC-14245-1] c18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721
Power factor control system for AC induction
motors
[NASA-CASE-MPS-23280-1] c33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LRW-12916-1] c37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c73 N78-28913
Pneumatic inflatable end effector
[NASA-CASE-MPS-23696-1] c54 N78-32724
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solar light
[NASA-CASE-KSC-11010-1] c74 N79-12890
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c08 N79-15057
Means for controlling aerodynamically induced
twist --- equipment to control twisting of
slender wings due to aerodynamic loads
[NASA-CASE-LAR-12175-1] c05 N80-16055
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c35 N80-28686
CONTROL ROCKETS
Unit for generating thrust from catalytic
decomposition of hydrogen peroxide, for high
altitude aircraft or spacecraft reaction control
[NASA-CASE-IKS-00583] c28 N70-38504
CONTROL RODS
Manual control mechanism for adjusting control
rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
CONTROL SIMULATION
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c54 N79-25761
CONTROL STABILITY
Design and development of active control system
for air cushion vehicle to reduce or eliminate
effects of excessive vertical vibratory
acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023
CONTROL SURFACES
Conical valve plug for use with reactive
cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Attitude control system for spacecraft based on
conversion of incident solar radiation on
movable control surfaces into mechanical torques
[NASA-CASE-INP-02982] c31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c08 N79-14108
CONTROL UNITS (COMPUTERS)
Self testing and repairing computer comprising
control and diagnostic unit and rollback

points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
CONTROL VALVES
Electromechanical actuator and its use in rocket
thrust control valve
[NASA-CASE-INP-05975] c15 N69-23185
Multiple orifice fluid flow control valve to
provide different flow patterns
[NASA-CASE-BRC-10208] c15 N70-10867
Conical valve plug for use with reactive
cryogenic fluids
[NASA-CASE-XLE-00715] c15 N70-34859
Control valve and coaxial variable injector for
controlling bipropellant mixture ratio and flow
[NASA-CASE-INP-09702] c15 N71-17654
Control valve for switching main stream of fluid
from one stable position to another by means
of electrohydrodynamic forces
[NASA-CASE-NPO-10416] c12 N71-27332
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in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
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systems used in space flight environmental
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[NASA-CASE-MSC-13587-1] c15 N73-30459
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[NASA-CASE-NPO-13360-1] c37 N75-25185
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[NASA-CASE-MSC-14905-1] c37 N77-28487
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[NASA-CASE-MSC-12731-1] c37 N78-25426
Pressure control valve --- connecting pressure
vessel and pressure source
[NASA-CASE-ARC-11251-1] c37 N79-30553
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c37 N79-33468
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[NASA-CASE-NPO-14473-1] c37 N80-23654
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Rectangular electric conductors for conductor
cables to withstand spacecraft vibration and
controlled atmosphere
[NASA-CASE-MPS-14741] c09 N70-20737
High voltage pulse generator for testing flash
and ignition limits of nonmetallic materials
in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
System for continuous monitoring of exhalations,
weighing, and cage cleaning for animals exposed
to controlled atmosphere for toxic study
[NASA-CASE-IAC-05333] c11 N71-22875
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Unitary three-axis controller for flight
vehicles within or outside atmosphere
[NASA-CASE-IFR-00181] c21 N70-33279
Two axis flight controller with potentiometer
control shafts directly coupled to rotatable
ball members
[NASA-CASE-XPR-04104] c03 N70-42073
Hand controller operable about three
respectively perpendicular axes and capable of
actuating signal generators for attitude
control devices
[NASA-CASE-IKS-07487] c15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c33 N78-32340
Controller for computer control of brushless DC
motors
[NASA-CASE-NPO-13970-1] c33 N79-20315
Active nutation controller
[NASA-CASE-GSC-12273-1] c35 N80-21719
CONVECTIVE FLOW
Design and development of device to prevent
geysing during convective circulation of
cryogenic fluids
[NASA-CASE-KSC-10615] c15 N73-12486
CONVECTIVE HEAT TRANSFER
Thin film gauge --- for measuring convective
heat transfer rates along test surfaces in
wind tunnels
[NASA-CASE-NPO-10617-1] c35 N74-22095
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spherical shock waves

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- Nozzle extraction process and handlemeter for measuring handle [NASA-CASE-LAR-12147-1] c31 N79-11246
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- Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control [NASA-CASE-XMP-01544] c28 N70-34162
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- Cooling and radiation protection of ruby lasers using copper sulfate solution in alcohol [NASA-CASE-NFS-20180] c16 N72-12440
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- Heating and cooling system --- for fatigue test specimens [NASA-CASE-LAR-12393-1] c39 N80-25693
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- Differential thermopile for measuring cooling water temperature rise [NASA-CASE-XAC-00812] c14 N71-15598
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- Portable cryogenic cooling system design including turbine pump, cooling chamber, and atomizer [NASA-CASE-NPO-10467] c23 N71-26654
- Development and characteristics of natural circulation radiator for use with nuclear power plants installed in lunar space stations [NASA-CASE-XHQ-03673] c33 N71-29046
- Development and characteristics of cooling system to maintain temperature of rack mounted electronic modules [NASA-CASE-HSC-12389] c33 N71-29052
- Development of method for cooling high temperature wall members with cooling medium having high heat absorption capability [NASA-CASE-HQN-00938] c33 N71-29053
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[NASA-CASE-XLE-02991] c17 N71-16025
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[NASA-CASE-LEW-13088-1] c24 N80-11142
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[NASA-CASE-NPO-13579-1] c44 N78-17460
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[NASA-CASE-IGS-05434] c03 N71-20491
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[NASA-CASE-GSC-10487-1] c03 N71-24719
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[NASA-CASE-LAR-10756-1] c32 N73-26910
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[NASA-CASE-LAR-12474-1] c35 N80-31774
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Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
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[NASA-CASE-IGS-01473] c09 N71-10673
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[NASA-CASE-XNP-08836] c09 N71-12515
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[NASA-CASE-IGS-02440] c08 N71-19432
Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
[NASA-CASE-XMS-02399] c05 N71-22896
Computer circuit performing both counting and shifting logic operations also capable of miniaturization and integration in basic circuits
[NASA-CASE-XNP-01753] c08 N71-22897
Noninterruptable digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-XNP-09759] c08 N71-24891
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c33 N76-16331

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[NASA-CASE-MPS-22880-1] c33 N76-31410

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[NASA-CASE-XLA-00189] c33 N70-36846

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[NASA-CASE-NPO-11059] c15 N72-17454

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Interrogator and current driver circuit for combination with transistor flip-flop circuit
[NASA-CASE-XGS-03058] c10 N71-19547

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[NASA-CASE-GSC-10220-1] c07 N71-27233

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[NASA-CASE-MSC-13201-1] c07 N71-28429

High efficiency transformerless amplitude modulator coupled to RF power amplifier
[NASA-CASE-GSC-10668-1] c07 N71-28430

Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MPS-21660-1] c35 N74-21017

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520

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Releasable coupling device designed to receive and retain matching ends of electrical connectors
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Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490

Space vehicle stage coupling and quick release separation mechanism
[NASA-CASE-XLA-01441] c15 N70-41679

Standard coupling design for mass production
[NASA-CASE-XMS-02532] c15 N70-41808

Quick-release coupling for fueling rocket vehicles with cryogenic propellants
[NASA-CASE-XKS-01985] c15 N71-10782

Ratchet mechanism for high speed operation at reduced backlash
[NASA-CASE-MPS-12805] c15 N71-17805

Split nut and bolt separation device
[NASA-CASE-XNP-06914] c15 N71-21489

Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MPS-20395] c15 N71-24903

Coupling arrangement for isolating torque loads from axial, radial, and bending loads
[NASA-CASE-XLA-04897] c15 N72-22482

Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c33 N75-30430

Opto-mechanical subsystem with temperature compensation through isothermal design
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TV fatigue crack monitoring system
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Aircraft-mounted crash-activated transmitter device
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Battery powered aircraft crash locator transmitter
[NASA-CASE-MPS-16609] c14 N72-21431

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Nickel base alloy with resistance to oxidation at high temperatures and superior stress-rupture properties

[NASA-CASE-XLE-02082] c17 N71-16026

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New trifunctional alcohol derived from trimer acid and novel method of preparation
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[NASA-CASE-LEW-12972-1] c44 N79-25481

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Method of cross-linking polyvinyl alcohol and other water soluble resins
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Evaporating crucible of tantalum-tungsten foil, nickel alumina bonding agent, and ceramic coating
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Decontamination of petroleum products with honey
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[NASA-CASE-XNP-08882] c15 N69-39935

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Dual solid cryogenics for spacecraft refrigeration insuring low temperature cooling for extended periods
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[NASA-CASE-KSC-10595] c08 N73-12176

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[NASA-CASE-MSC-14070-1] c32 N74-32598

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[NASA-CASE-NPO-10150] c08 N71-24650
Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-XKS-06167] c08 N71-24890
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[NASA-CASE-NPO-10342] c10 N71-33407
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[NASA-CASE-KSC-10834-1] c33 N76-14371
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[NASA-CASE-MSC-14557-1] c32 N76-16249
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[NASA-CASE-GSC-11824-1] c33 N77-26386
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[NASA-CASE-KSC-11065-1] c60 N79-27865
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[NASA-CASE-KSC-11025-1] c32 N79-28383

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[NASA-CASE-MSC-14070-1] c32 N74-32598
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[NASA-CASE-GSC-12447-1] c60 N80-21987

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[NASA-CASE-XNP-03835] c06 N71-23499
Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-NPO-10634] c23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c75 N78-27913

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[NASA-CASE-MFS-23114-1] c38 N78-32447

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[NASA-CASE-XNP-09461] c28 N72-23809
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[NASA-CASE-LAR-12178-1] c74 N80-21138

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[NASA-CASE-XLE-00388] c28 N70-34788
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[NASA-CASE-XLA-01583] c02 N70-36825
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[NASA-CASE-XLE-00519] c28 N70-41576
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 - Tape guidance system for multichannel digital recording system [NASA-CASE-XMP-09453] c08 N71-19420
 - Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback [NASA-CASE-XGS-01812] c07 N71-23001

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Digital data handling circuits for pulse amplifiers
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Bit synchronization system using digital data transition tracking phased locked loop
 [NASA-CASE-NPO-10844] c07 N72-20140

Control and information system for digital telemetry data using analog converter to digitize sensed parameter values
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Digital plus analog output encoder
 [NASA-CASE-GSC-12115-1] c62 N76-31946

Digital data reformatter/deserializer
 [NASA-CASE-NPO-13676-1] c60 N79-20751

DIGITAL FILTERS

Design and development of signal detection and tracking apparatus
 [NASA-CASE-XGS-03502] c10 N71-20852

Digital filter for reducing jitter in digital control systems
 [NASA-CASE-NPO-11088] c08 N71-29034

Nonrecursive counting digital filter containing shift register
 [NASA-CASE-NPO-11821-1] c08 N73-26175

Filtering device --- removing electromagnetic noise from voice communication signals
 [NASA-CASE-MFS-22729-1] c32 N76-21366

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Digital automatic gain amplifier
 [NASA-CASE-KSC-11008-1] c33 N79-22373

DIGITAL RADAR SYSTEMS

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
 [NASA-CASE-NPO-14054-1] c32 N79-14278

DIGITAL SPACECRAFT TELEVISION

TV camera output signal control system for digital spacecraft communication
 [NASA-CASE-XNP-01472] c14 N70-41807

DIGITAL SYSTEMS

Light sensitive digital aspect sensor for attitude control of earth satellites or space probes
 [NASA-CASE-XGS-00359] c14 N70-34158

Circuit diagram and operation of full binary adder
 [NASA-CASE-XGS-00689] c08 N70-34787

Digital telemetry system apparatus to reduce tape recorder wow and flutter noise during playback
 [NASA-CASE-XGS-01812] c07 N71-23001

Reliable magnetic core circuit apparatus with application in selection matrices for digital memories
 [NASA-CASE-XNP-01318] c10 N71-23033

Noninterruptable digital counter circuit design with display device for pulse frequency modulation
 [NASA-CASE-XNP-09759] c08 N71-24891

Digital memory system with multiple switch cores for driving each word location
 [NASA-CASE-XNP-01466] c10 N71-26434

Digital quasi-exponential function generator
 [NASA-CASE-NPO-11130] c08 N72-20176

Digital function generator for generating any arbitrary single valued function
 [NASA-CASE-NPO-11104] c08 N72-22165

Digital video system for displaying image and alphanumeric data on cathode ray tube
 [NASA-CASE-NPO-11342] c09 N72-25248

Data compression using decreasing slope threshold test and digital techniques
 [NASA-CASE-NPO-11630] c08 N72-33172

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 [NASA-CASE-GSC-10975-1] c08 N73-13187

Low phase noise frequency divider for use with deep space network communication system
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Synchronized digital communication system
 [NASA-CASE-XNP-03623] c09 N73-28084

Digital second-order phase-locked loop
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Digital controller for a Bawn folding machine --- providing automatic counting and machine shutoff
 [NASA-CASE-LAR-10688-1] c37 N74-21056

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[NASA-CASE-MSC-14558-1] c32 N75-21486

Automatic character skew and spacing checking network --- of digital tape drive systems
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Anti-multipath digital signal detector
 [NASA-CASE-LAR-11827-1] c32 N77-10392

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 [NASA-CASE-NPO-13753-1] c32 N77-20289

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 [NASA-CASE-MSC-12709-1] c33 N77-24375

Bit error rate measurement above and below bit rate tracking threshold
 [NASA-CASE-MSC-12743-1] c32 N79-10263

Apparatus and method for stabilized phase detection for binary signal tracking loops
 [NASA-CASE-MSC-16461-1] c33 N79-11313

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 [NASA-CASE-NPO-13982-1] c32 N79-14267

Memory-based frame synchronizer --- for voice data processing in digital communication systems
 [NASA-CASE-GSC-12430-1] c32 N80-20453

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 [NASA-CASE-MFS-14322] c08 N71-18692

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 [NASA-CASE-XLA-07732] c08 N71-18751

Horizon sensor design with digital sampling of spaced radiation-compensated thermopile infrared detectors
 [NASA-CASE-XNP-06957] c14 N71-21088

Digital cardiometer incorporating circuit for measuring heartbeat rate of subject over predetermined portion of one minute also converting rate to beats per minute
 [NASA-CASE-XMS-02399] c05 N71-22896

Digital synchronizer for extracting binary data in receiver of PSK/PCM communication system
 [NASA-CASE-NPO-10851] c07 N71-24613

Digital sensor for counting fringes produced by interferometers with improved sensitivity and one photomultiplier tube to eliminate alignment problem
 [NASA-CASE-LAR-10204] c14 N71-27215

Apparatus and digital technique for coding rate data
 [NASA-CASE-LAR-10128-1] c08 N73-20217

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 [NASA-CASE-MSC-13912-1] c32 N74-30524

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 [NASA-CASE-MSC-16747-1] c33 N79-17138

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 [NASA-CASE-XLA-07828] c08 N71-27057

Digital to analog converter with parallel input/output memory device
 [NASA-CASE-KSC-10397] c08 N72-25206

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 [NASA-CASE-MSC-12458-1] c08 N73-32081

High speed, glitch-free digital to analog converter
 [NASA-CASE-GSC-12319-1] c60 N79-32852

Smoothing filter for digital to analog conversion
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Digital to analog converter for sampled signal reconstruction
 [NASA-CASE-MSC-12458-1] c08 N73-32081

Angle detector
 [NASA-CASE-ARC-11036-1] c35 N78-32395

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Chemical and physical properties of synthetic polyurethane polymer prepared by reacting hydroxy carbonate with organic diisocyanate
 [NASA-CASE-MFS-10512] c06 N73-30099

Preparation of stable polyurethane polymer by reacting polymer with diisocyanate
 [NASA-CASE-MFS-10506] c06 N73-30100

Preparation of polyurethane polymer by reacting hydroxy polyformal with organic diisocyanate
 [NASA-CASE-MFS-10509] c06 N73-30103

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Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c35 N78-17357

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Single electrical circuit component combining diode, fuse, and blown indicator with elongated tube of heat resistant transparent material
[NASA-CASE-IKS-03381] c09 N71-22796
Maintaining current flow through solar cells with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Gunn effect microwave diodes with RF shielding
[NASA-CASE-ERC-10119] c26 N72-21701
Transistorized switching logic circuits with tunnel diodes
[NASA-CASE-GSC-10878-1] c10 N72-22236
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[NASA-CASE-ERC-10325] c15 N72-25457
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[NASA-CASE-ARC-10467-1] c09 N73-14214
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[NASA-CASE-ERC-10224-2] c09 N73-27150
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[NASA-CASE-NPO-13081-1] c33 N78-22814
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N78-32339
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c33 N78-32341
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c31 N79-17029
Power converter --- for display devices, lighting equipment
[NASA-CASE-FRC-11014-1] c33 N79-27395

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Circularly polarized antenna with linearly polarized pair of elements
[NASA-CASE-ERC-10214] c09 N72-31235
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c32 N80-24511

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Regulated dc to dc converter
[NASA-CASE-IGS-03429] c03 N69-21330
Automatic control of voltage supply to direct current motor
[NASA-CASE-IKS-04215-1] c09 N69-39987
Thermionic diode switch for use in high temperature region to chop current from dc source
[NASA-CASE-NPO-10404] c03 N71-12255
Transistorized dc-coupled multivibrator with noninverted output signal
[NASA-CASE-INP-09450] c10 N71-18723
Stepping motor control apparatus exciting windings in proper time sequence to cause motor to rotate in either direction
[NASA-CASE-GSC-10366-1] c10 N71-18772
Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
Conversion of positive dc voltage to positive dc voltage of lower amplitude
[NASA-CASE-INP-14301] c09 N71-23188
Converting output of positive dc voltage source to negative dc voltage across load with common reference point
[NASA-CASE-INP-08217] c03 N71-23239
Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-IKS-06061] c05 N71-23317
Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range

[NASA-CASE-IGS-01418] c09 N71-23573
Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
[NASA-CASE-MFS-20385] c09 N71-24904
Inverters for changing direct current to alternating current
[NASA-CASE-IGS-06226] c10 N71-25950
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[NASA-CASE-INP-07477] c09 N71-26092
Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-MFS-14610] c09 N71-28886
High dc switch for causing abrupt, cyclic, decreases of current to operate under zero or varying gravity conditions
[NASA-CASE-LEW-10155-1] c09 N71-29035
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[NASA-CASE-XER-11046] c09 N72-22203
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[NASA-CASE-GSC-11126-1] c09 N72-25253
Direct current motor including stationary field windings and stationary armature winding
[NASA-CASE-IGS-07805] c15 N72-33476
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[NASA-CASE-MSC-12396-1] c03 N73-31988
Bio-isolated dc operational amplifier --- for bioelectric measurements.
[NASA-CASE-ARC-10596-1] c33 N74-21851
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[NASA-CASE-XER-11046-2] c33 N74-22864
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[NASA-CASE-MSC-12506-1] c32 N77-12239
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c33 N77-26386
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[NASA-CASE-GSC-12228-1] c33 N79-10338
Direct current transformer
[NASA-CASE-MFS-23659-1] c33 N79-17133
Controller for computer control of brushless DC motors
[NASA-CASE-NPO-13970-1] c33 N79-20315
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A velocity vector control system augmented with direct lift control --- stability augmentation using manual control
[NASA-CASE-LAR-12268-1] c08 N79-20136
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Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
Thermal pump-compressor for converting solar energy
[NASA-CASE-XLA-00377] c33 N71-17610
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[NASA-CASE-INP-08217] c03 N71-23239
Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 N71-24893
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[NASA-CASE-XER-11046-2] c33 N74-22864
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Mechanical coordinate converter for use with spacecraft tracking antennas
[NASA-CASE-INP-00614] c14 N70-36907
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[NASA-CASE-IKS-08485] c07 N71-19493
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[NASA-CASE-GSC-10553-1] c07 N71-19854
Drive system for parabolic tracking antenna with reversible motion and minimal backlash
[NASA-CASE-NPO-10173] c15 N71-24696
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[NASA-CASE-GSC-11862-1] c32 N76-18295
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[NASA-CASE-MFS-21309-1] c37 N74-18125
A velocity vector control system augmented with direct lift control --- stability augmentation using manual control
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[NASA-CASE-XLA-00711] c03 N71-12258
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[NASA-CASE-XLA-01396] c03 N71-12259
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[NASA-CASE-XLA-01141] c15 N71-13789
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[NASA-CASE-NMP-06914] c15 N71-21489
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[NASA-CASE-XKS-04631] c10 N71-23663
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[NASA-CASE-XLA-08530] c32 N71-25360

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[NASA-CASE-ARC-10441-1] c35 N74-15126

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[NASA-CASE-IAC-00472] c15 N70-40180
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[NASA-CASE-XLA-00781] c09 N71-22999
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[NASA-CASE-NPO-10778] c14 N72-11364
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[NASA-CASE-NPO-13519-1] c33 N76-19338
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[NASA-CASE-ERC-10031] c12 N71-18603
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[NASA-CASE-XGS-04987] c08 N71-20571
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[NASA-CASE-NMP-03853] c23 N71-21882
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[NASA-CASE-XKS-03509] c14 N71-23175
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[NASA-CASE-XKS-06167] c08 N71-24890
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[NASA-CASE-NMP-09759] c08 N71-24891
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[NASA-CASE-NPO-10344] c10 N71-26544
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[NASA-CASE-NPO-11342] c09 N72-25248
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[NASA-CASE-ERC-10350] c14 N73-20474
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[NASA-CASE-GSC-11690-1] c14 N73-28499
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[NASA-CASE-MSC-13746-1] c10 N73-32143
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[NASA-CASE-GSC-11553-1] c35 N74-15831
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[NASA-CASE-FRC-10071-1] c32 N74-20813
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[NASA-CASE-ARC-10903-1] c09 N78-18083
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[NASA-CASE-LAR-12251-1] c74 N79-14892
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[NASA-CASE-NPO-14174-1] c74 N79-20856
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[NASA-CASE-LAR-12633-1] c35 N80-22661
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[NASA-CASE-LAR-12251-1] c74 N80-27185
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[NASA-CASE-GSC-10891-1] c10 N71-26626
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Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c44 N77-22607
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[NASA-CASE-LAR-10195-1] c15 N73-19458
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Binary coded sequential acquisition ranging system for distance measurements
[NASA-CASE-NPO-11194] c08 N72-25209
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[NASA-CASE-XNP-08124] c15 N71-27184
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[NASA-CASE-XLA-02705] c08 N71-15908
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[NASA-CASE-HQN-10740-1] c72 N74-19310
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c32 N80-24510
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[NASA-CASE-LAR-10776-1] c02 N74-10034
- DRAG MEASUREMENT**
Device for measuring drag forces in flight tests
[NASA-CASE-XLA-00113] c14 N70-33386
- Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-00755] c01 N71-13410
- Electric analog for measuring induced drag on nonplanar airfoils
[NASA-CASE-XLA-05828] c01 N71-13411

Impact energy absorber with decreasing absorption rate
[NASA-CASE-XLA-01530] c14 N71-23092

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-PRC-11024-1] c02 N80-28300

DRAG REDUCTION

Directed fluid stream for propeller blade loading control
[NASA-CASE-XAC-00139] c02 N70-34856

Aircraft wheel spray drag alleviator for dual tandem landing gear
[NASA-CASE-XLA-01583] c02 N70-36825

Improved method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-1] c37 N80-26660

Improved low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-PRC-11058-1] c85 N80-33312

DRIFT (INSTRUMENTATION)

Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASE-XMS-05562-1] c09 N69-39986

Solar radiation direction detector and device for compensating degradation of photocells
[NASA-CASE-XLA-00183] c14 N70-40239

Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MPS-23551-1] c04 N76-26175

DRILL BITS

Impact bit for cutting, collecting, and storing samples such as lunar rock cuttings
[NASA-CASE-XNP-01412] c15 N70-42034

Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MPS-22649-1] c37 N75-25186

DRILLING

Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c37 N80-29705

DRILLS

Rotary impact-type rock drill for recovering rock cuttings
[NASA-CASE-XNP-07478] c14 N69-21923

Auger-type soil penetrometer for burrowing into soil formations
[NASA-CASE-XNP-05530] c14 N73-32321

DRIVES

Inverter drive circuit for semiconductor switch
[NASA-CASE-LEW-10233] c10 N71-27126

DROPS (LIQUIDS)

Development of droplet monitoring probe for use in analysis of droplet propagation in mixed-phase fluid stream
[NASA-CASE-NPO-10985] c14 N73-20478

DRUGS

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c25 N75-12086

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c52 N79-14755

DRY CELLS

Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817

DRYING

Drying chamber for photographic sheet material
[NASA-CASE-GSC-11074-1] c14 N73-28489

DRYING APPARATUS

Gas purged dry box glove reducing permeation of air or moisture into dry box or isolator by diffusion through glove
[NASA-CASE-XLE-02531] c05 N71-23080

DUCTED FANS

Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c07 N79-14095

DUCTS

Quick disconnect duct coupling device for single-handed operation
[NASA-CASE-MPS-20395] c15 N71-24903

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MPS-19194-1] c37 N76-14460

Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c31 N80-32583

DURABILITY

Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c37 N80-32717

DUST COLLECTORS

Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819

DYE LASERS

Infrared tunable dye laser with nonlinear wavelength mixing crystal in optical cavity
[NASA-CASE-ARC-10463-1] c09 N73-32111

Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c36 N75-19655

DYES

Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
[NASA-CASE-XMP-02221] c18 N71-27170

DYNAMIC CHARACTERISTICS

Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681

Design of precision vertical alignment system using laser with gravitationally sensitive cavity
[NASA-CASE-ARC-10444-1] c16 N73-33397

DYNAMIC CONTROL

Motion restraining device
[NASA-CASE-NPO-13619-1] c37 N78-16369

DYNAMIC LOADS

Multilegged support system for wind tunnel test models subjected to thermal dynamic loading
[NASA-CASE-XLA-01326] c11 N71-21481

Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878

Development and characteristics of device for indicating and recording magnitude of force applied in axial direction
[NASA-CASE-MSC-15626-1] c14 N72-25411

DYNAMIC MODULUS OF ELASTICITY

Apparatus for testing metallic and nonmetallic beams or rods by bending at high temperatures in vacuum or inert atmosphere
[NASA-CASE-XLE-01300] c15 N70-41993

DYNAMIC RESPONSE

Lunar and planetary gravity simulator to test vehicular response to landing
[NASA-CASE-XLA-00493] c11 N70-34786

Pressure sensor network for measuring liquid dynamic response in flight including fuel tank acceleration, liquid slosh amplitude, and fuel depth monitoring
[NASA-CASE-XLA-05541] c12 N71-26387

Response analyzing apparatus for liquid vapor interface sensor of sloshing rocket propellant
[NASA-CASE-MPS-11204] c14 N71-29134

Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS

Development of system for measuring damping characteristics of structure or system subjected to random forces or influences
[NASA-CASE-ARC-10154-1] c14 N72-22440

DYNAMIC TESTS

Hydraulic support equipment for full scale dynamic testing of large rocket vehicle under free flight conditions
[NASA-CASE-XMP-01772] c11 N70-41677

Hydraulic support apparatus for dynamic testing of space vehicles under near-free flight conditions
[NASA-CASE-XMP-03248] c11 N71-10604

DYNAMOMETERS

Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203

Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429

E

- EAR**
Ear oximeter for monitoring blood oxygenation and pressure, pulse rate, and pressure pulse curve, using dc and ac amplifiers
[NASA-CASE-IAC-05422] c04 N71-23185
- EARTH (PLANET)**
Camera arrangement --- for satellite scanning of earth or sky
[NASA-CASE-GSC-12032-2] c35 N76-19408
- EARTH ATMOSPHERE**
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991
- EARTH CRUST**
Seismic vibration source
[NASA-CASE-NPO-14112-1] c46 N79-22679
- EARTH ORBITS**
Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-NFS-20710] c11 N72-23215
Design and development of space shuttle system for delivering payload to earth orbit or celestial orbit
[NASA-CASE-NSC-12391] c30 N73-12884
- ECCENTRICS**
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c37 N78-25431
- ECHLETTE GRATINGS**
Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c35 N80-26635
- ECHOES**
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c32 N79-26253
- ECONOMIC ANALYSIS**
Econometric satellite aided vehicle avoidance system for preventing midair collisions
[NASA-CASE-NRC-10419] c21 N72-21631
- EDGES**
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c74 N80-24149
- EFFICIENCY**
Recovering efficiency of solar cells damaged by environmental radiation through thermal annealing
[NASA-CASE-XGS-04047-2] c03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c32 N74-20863
- EFFLUENTS**
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c34 N77-24423
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-NSC-16841-1] c34 N79-24285
- EJECTION**
Apparatus for ejecting covers of instrument packages using differential pressure principle
[NASA-CASE-XNP-04132] c15 N69-27502
- EJECTION SEATS**
Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XNS-04625] c05 N71-20718
- EJECTORS**
Automatic ejection valve for attitude control and midcourse guidance of space vehicles
[NASA-CASE-XNP-00676] c15 N70-38996
Ejector for separating astronaut from ejection seat during prelaunch or initial launch phase of flight
[NASA-CASE-XNS-04625] c05 N71-20718
Latching mechanism with pivoting catch and self-contained spring ejector
[NASA-CASE-XLA-03538] c15 N71-24897
- ELASTIC BODIES**
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
- Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-IAC-05632] c32 N71-23971
Device for measuring tensile forces
[NASA-CASE-NFS-21728-1] c35 N74-27865
- ELASTIC DEFORMATION**
Measuring shear-creep compliance of solid and liquid materials used in spacecraft components
[NASA-CASE-XLE-01481] c14 N71-10781
Development of systems for automatically and continually suppressing or attenuating bending motion in elastic bodies
[NASA-CASE-IAC-05632] c32 N71-23971
- ELASTIC MEDIA**
Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
- ELASTIC PROPERTIES**
Elastic universal joint for rocket motor mounting
[NASA-CASE-XNP-00416] c15 N70-36947
Resilient vehicle wheel for lunar surface travel
[NASA-CASE-NFS-20400] c31 N71-18611
Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonmalleable materials in both ends
[NASA-CASE-XPB-05302] c15 N71-23254
Chemical and elastic properties of fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c06 N73-33076
Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-NFS-22189-1] c35 N75-19615
- ELASTIC SHEETS**
Hot forming of plastic sheets
[NASA-CASE-XNS-05516] c15 N71-17803
- ELASTOMERS**
Describing metal valve pintle with encapsulated elastomeric body
[NASA-CASE-NSC-12116-1] c15 N71-17648
Development of apparatus for measuring successive increments of strain on elastomers
[NASA-CASE-XNP-04680] c15 N71-19489
Preparation of elastomeric diamine silazane polymers
[NASA-CASE-XNP-04133] c06 N71-20717
Leak resistant bonded elastomeric seal for secondary electrochemical cells
[NASA-CASE-XGS-02631] c03 N71-23006
Conductive elastomeric extensometer
[NASA-CASE-NFS-21049-1] c52 N74-27864
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c37 N76-24575
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c37 N76-31524
Flame retardant formulations and products produced therefrom
[NASA-CASE-NSC-16307-1] c25 N78-27232
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high-oxygen environments
[NASA-CASE-NSC-14331-3] c27 N78-32262
The 1,2,4-oxadiazole elastomers
[NASA-CASE-ARC-11253-1] c27 N79-22302
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c27 N80-32514
Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c27 N80-32515
- ELASTOMETERS**
Process for the preparation of new elastomeric polytriazines
[NASA-CASE-ARC-11248-1] c27 N79-22301
- ELECTRETS**
Charge injection method and apparatus of producing large area electrets
[NASA-CASE-NFS-23186-1] c33 N76-23483
Charge injection method and apparatus of producing large area electrets
[NASA-CASE-NFS-23186-2] c24 N78-25137
- ELECTRIC ARCS**
Magnetically diffused radial electric arc heater
[NASA-CASE-XLA-00330] c33 N70-34540
Controlled arc spot welding method
[NASA-CASE-XNP-00392] c15 N70-34814
Triggering system for electric arc driven impulse wind tunnel

- [NASA-CASE-XNP-00411] c11 N70-36913
Electric arc device for minimizing electrode
ablation and heating gases to supersonic or
hypersonic wind tunnel temperatures
[NASA-CASE-XAC-00319] c25 N70-41628
Electric arc heater with supersonic nozzle and
fixed arc length for use in high temperature
wind tunnels
[NASA-CASE-XAC-01677] c09 N71-20816
Arc electrode of graphite with tantalum ball tip
[NASA-CASE-XLE-04788] c09 N71-22987
High powered arc electrodes --- producing solar
simulator radiation
[NASA-CASE-LBW-11162-1] c33 N74-12913
Electric arc light source having undercut
recessed anode
[NASA-CASE-ARC-10266-1] c33 N75-29318
- ELECTRIC BATTERIES**
Spacecraft battery seals
[NASA-CASE-XGS-03864] c15 N69-24320
Sealed electric storage battery with gas
manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Battery charging system with cell to cell
voltage balance
[NASA-CASE-XGS-05432] c03 N71-19438
Development and characteristics of battery
charging circuits with coulometer for control
of available current
[NASA-CASE-GSC-10487-1] c03 N71-24719
Heat activated emf cells with aluminum anode
[NASA-CASE-LBW-11359] c03 N71-28579
Development of device for simulating charge and
discharge cycle of battery in synchronous orbit
[NASA-CASE-GSC-11211-1] c03 N72-25020
Storage battery comprising negative plates of a
wedge shaped configuration --- for preventing
shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c44 N74-19693
Battery testing device --- for testing cells of
multiple-cell battery
[NASA-CASE-MPS-20761-1] c44 N74-27519
Rapid activation and checkout device for batteries
[NASA-CASE-MPS-22749-1] c44 N76-14601
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c44 N76-18643
Lead-oxygen dc power supply system having a
closed loop oxygen and water system
[NASA-CASE-MPS-23059-1] c44 N76-27664
Voltage regulator for battery power source ---
using a bipolar transistor
[NASA-CASE-PRC-10116-1] c33 N79-23345
Toroidal cell and battery --- energy storage for
orbital space applications or power cells for
electric vehicles
[NASA-CASE-LBW-12918-1] c44 N80-33857
- ELECTRIC BRIDGES**
Pulsed excitation voltage circuit for strain
gage bridge transducers
[NASA-CASE-PRC-10036] c09 N72-22200
Bridge-type gain control circuit
[NASA-CASE-GSC-10786-1] c10 N72-28241
Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c33 N75-25041
Germanium coated microbridge and method
[NASA-CASE-MPS-23274-1] c33 N78-13320
Power converter --- for display devices,
lighting equipment
[NASA-CASE-PRC-11014-1] c33 N79-27395
- ELECTRIC CELLS**
Expanding and contracting connector strip for
solar cell array of Nimbus satellite
[NASA-CASE-XGS-01395] c03 N69-21539
Design and characteristics of heat activated
electric cell with anode made from one or more
alkali metals and cathode made from oxidizing
material
[NASA-CASE-LBW-11358] c03 N71-26084
Development and characteristics of ion-exchange
membrane and electrode assembly for fuel cells
or electrolysis cells
[NASA-CASE-XMS-02063] c03 N71-29044
- ELECTRIC CHARGE**
Indicator device for monitoring charge of wet
cell battery, using semiconductor light
emitter and photodetector
[NASA-CASE-NPO-10194] c03 N71-20407
Automatically charging battery of electric
storage cells
- [NASA-CASE-XNP-04758] c03 N71-24605
- ELECTRIC CHOPPERS**
Monostable multivibrator for conserving power in
spacecraft systems
[NASA-CASE-GSC-10082-1] c10 N72-20221
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c33 N78-17295
Precision reciprocating filament chopper
[NASA-CASE-LAR-12564-1] c37 N80-17468
- ELECTRIC COILS**
Broadband chokes and absorbers to reduce
spurious radiation patterns of antenna array
caused by support structures
[NASA-CASE-XMS-05303] c07 N69-27462
- ELECTRIC CONDUCTORS**
Hollow spherical electrode for shielding
dielectric junction between high voltage
conductor and insulator
[NASA-CASE-XLE-03778] c09 N69-21542
Conductor for connecting parallel cells into
submodules in series to form solar cell matrix
[NASA-CASE-NPO-10821] c03 N71-19545
Electrical switching device comprising
conductive liquid confined within square loop
of deformable nonconductive tubing also used
for leveling
[NASA-CASE-NPO-10037] c09 N71-19610
Dry electrode design with wire sandwiched
between two flexible conductive discs for
monitoring physiological responses
[NASA-CASE-PRC-10029] c09 N71-24618
Development of process for forming insulating
layer between two electrical conductor or
semiconductor materials
[NASA-CASE-LBW-10489-1] c15 N72-25447
Improved injector with porous plug for bubbles
of gas into feed lines of electrically
conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c44 N76-31666
Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c33 N77-13338
Velocity measurement system
[NASA-CASE-MPS-23363-1] c35 N78-32396
- ELECTRIC CONNECTORS**
Distribution of currents to circuits using
electrical adaptor
[NASA-CASE-XLA-01288] c09 N69-21470
Fixture for simultaneously supporting several
components for electrical testing
[NASA-CASE-XNP-06032] c09 N69-21926
Releasable coupling device designed to receive
and retain matching ends of electrical
connectors
[NASA-CASE-XMS-07846-1] c09 N69-21927
Electrical feedthrough connection for printed
circuit boards
[NASA-CASE-XNP-01483] c14 N69-27431
Electrical connector pin with wiping action to
assure reliable contact
[NASA-CASE-XNP-04238] c09 N69-39734
Rectangular electric conductors for conductor
cables to withstand spacecraft vibration and
controlled atmosphere
[NASA-CASE-MPS-14741] c09 N70-20737
Patent data on terminal insert connector for
flat electric cables
[NASA-CASE-XNP-00324] c09 N70-34596
Electric connector for printed cable to printed
cable or to printed board
[NASA-CASE-XNP-00369] c09 N70-36494
Electrical connection for printed circuits on
common board, using bellows principle in rivet
[NASA-CASE-XNP-05082] c15 N70-41960
Method of making molded electric connector for
use with flat conductor cables
[NASA-CASE-XNP-03498] c15 N71-15986
Design and development of electric connectors
for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
Connector internal force gage for measuring
strength of electrical connection
[NASA-CASE-XNP-03918] c14 N71-23087
Maintaining current flow through solar cells
with open connection using shunting diode
[NASA-CASE-XLE-04535] c03 N71-23354
Electrical connections for thin film hybrid
microcircuits

- [NASA-CASE-XMS-02182] c10 N71-28783
Breakaway multiwire electrical cable connector
with particular application for umbilical type
cables
- [NASA-CASE-NPO-11140] c15 N72-17455
Reliability of electrical connectors after heat
sterilization
- [NASA-CASE-NPO-10694] c09 N72-20200
Development of electric connector and pin
assembly with radio frequency absorbing sleeve
to reduce radio frequency interference
- [NASA-CASE-XLA-02609] c09 N72-25256
Electrical interconnection of unilluminated
solar cells in solar battery array
- [NASA-CASE-GSC-10344-1] c03 N72-27053
Separable flat cable connector with isolated
electrical contacts
- [NASA-CASE-MPS-20757] c09 N72-28225
Device for configuring multiple leads --- method
for connecting electric leads to printed
circuit board
- [NASA-CASE-MPS-22133-1] c33 N74-26977
Connector --- for connecting circuits on
different layers of multilayer printed circuit
boards
- [NASA-CASE-LAB-11709-1] c37 N76-27567
Percutaneous connector device
- [NASA-CASE-KSC-10849-1] c52 N77-14738
Magnetic electrical connectors for biomedical
percutaneous implants
- [NASA-CASE-KSC-11030-1] c52 N77-25772
Electrical self-aligning connector
- [NASA-CASE-MPS-25211-1] c33 N80-32651
- ELECTRIC CONTACTS**
- Solid state switching circuit design to increase
current capacity of low rated relay contacts
- [NASA-CASE-INP-09228] c09 N69-27500
Characteristics of hermetically sealed electric
switch with flexible operating capability
- [NASA-CASE-INP-09808] c09 N71-12518
Electrode connection for n-on-p silicon solar cell
- [NASA-CASE-XLE-04787] c03 N71-20492
Development of slip ring assembly with inner and
outer peripheral surfaces used as electrical
contacts for brushes
- [NASA-CASE-INP-01049] c15 N71-23049
Separable flat cable connector with isolated
electrical contacts
- [NASA-CASE-MPS-20757] c09 N72-28225
Electrostatic measurement system --- for
contact-electrifying a dielectric
- [NASA-CASE-MPS-22129-1] c33 N75-18477
Process for preparing liquid metal electrical
contact device
- [NASA-CASE-LEW-11978-1] c33 N77-26385
Liquid metal slip ring --- aerospace environments
- [NASA-CASE-LEW-12277-3] c33 N80-18300
- ELECTRIC CONTROL**
- Switching series regulator with gating control
network
- [NASA-CASE-XMS-09352] c09 N71-23316
- ELECTRIC CORONA**
- Charge injection method and apparatus of
producing large area electrets
- [NASA-CASE-MPS-23186-1] c33 N76-23483
- ELECTRIC CURRENT**
- Including didymium hydrate in nickel hydroxide
of positive electrode of storage batteries to
increase ampere hour capacity
- [NASA-CASE-XGS-03505] c03 N71-10608
Development of in-line fuse device for
protection of electric circuits from excessive
currents and voltages
- [NASA-CASE-MSC-12135-1] c09 N71-12526
Micromicroampere current measuring circuit, with
two subminiature thermionic diodes with
filament cathodes
- [NASA-CASE-INP-00384] c09 N71-13530
Connector internal force gage for measuring
strength of electrical connection
- [NASA-CASE-INP-03918] c14 N71-23087
Electric circuit for producing high current
pulse having fast rise and fall time
- [NASA-CASE-XMS-04919] c09 N71-23270
Electric circuit for reversing direction of
current flow
- [NASA-CASE-INP-00952] c10 N71-23271
Maintaining current flow through solar cells
with open connection using shunting diode
- [NASA-CASE-XLE-04535] c03 N71-23354
Color television system utilizing single gun
current sensitive color cathode ray tube
- [NASA-CASE-ERC-10098] c09 N71-28618
Current dependent variable inductance for input
filter chokes of ac or dc power supplies
- [NASA-CASE-ERC-10139] c09 N72-17154
Amplifying circuit with constant current source
for accumulator load and high gain voltage
amplification
- [NASA-CASE-NPO-11023] c09 N72-17155
Commutator for steering precisely controlled
bidirectional currents through numerous loads
by use of magnetic core shift registers
- [NASA-CASE-NPO-10743] c08 N72-21199
Current protection equipment for saturable core
transformers
- [NASA-CASE-ERC-10075-2] c09 N72-22196
Development of thermal to electric power
conversion system using solid state switches
of electrical currents to load for Seebeck
effect compensation
- [NASA-CASE-NPO-11388] c03 N72-23048
Load current sensor for series pulse width
modulated power supply
- [NASA-CASE-GSC-10656-1] c09 N72-25249
Electrode with multiple columnar conductors for
limiting field emission current
- [NASA-CASE-ERC-10015-2] c10 N72-27246
Means of vapor deposition using electric current
and evaporator filament
- [NASA-CASE-LAB-10541-1] c15 N72-32487
Lightning current measuring systems
- [NASA-CASE-KSC-10807-1] c33 N75-26246
Overload protection system for power inverter
- [NASA-CASE-NPO-13872-1] c33 N78-10377
Shunt regulation electric power system
- [NASA-CASE-GSC-10135] c33 N78-17296
Lightning current waveform measuring system
- [NASA-CASE-KSC-11018-1] c33 N79-10337
Electroexplosive device
- [NASA-CASE-NPO-13858-1] c28 N79-11231
Remote lightning monitor system
- [NASA-CASE-KSC-11031-1] c33 N79-11315
Lightning current detector
- [NASA-CASE-KSC-11057-1] c33 N79-14305
Driver for solar cell I-V characteristic plots
- [NASA-CASE-NPO-14096-1] c44 N80-18551
- ELECTRIC DISCHARGES**
- Electric discharge apparatus for
electrohydraulic explosive forming
- [NASA-CASE-INP-00375] c15 N70-34249
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 [NASA-CASE-XMP-01097] c10 N71-16058

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- [NASA-CASE-NPO-11388] c03 N72-23048
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- [NASA-CASE-XLA-02850] c09 N71-20447
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[NASA-CASE-GSC-10913] c15 N72-22491
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[NASA-CASE-LAR-10168-1] c33 N74-22865
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- ELECTRON DISTRIBUTION**
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[NASA-CASE-ARC-10598-1] c75 N74-30156
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Electrostatic ion engines using high velocity electrons to ionize propellant
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 [NASA-CASE-NPO-14000-1] c33 N79-24254
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[NASA-CASE-LEW-10364-1] c09 N71-13522
- Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
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[NASA-CASE-XMS-02182] c10 N71-28783
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[NASA-CASE-NPO-13157-1] c37 N74-32918
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[NASA-CASE-ARC-10132-1] c09 N71-24597
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[NASA-CASE-GSC-10114-1] c10 N71-27366
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- Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c25 N78-14104
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- Microelectrophoretic apparatus and process
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[NASA-CASE-MFS-23284-1] c37 N80-14397
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[NASA-CASE-MFS-23883-1] c51 N80-16715
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[NASA-CASE-MFS-20044] c14 N71-28993
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[NASA-CASE-FRC-10029] c09 N71-24618
- ELECTROPLATING**
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[NASA-CASE-XLA-08966-1] c17 N71-25903
- Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MFS-13687] c09 N71-28691
- Technique and equipment for sputtering using apertured electrode and pulsed substrate bias
[NASA-CASE-LEW-10920-1] c17 N73-24569
- ELECTROSTATIC CHARGE**
Charged particle analyzer with periodically varying voltage applied across electrostatic deflection members
[NASA-CASE-XAC-05506-1] c24 N71-16095
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c33 N75-18477
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[NASA-CASE-ARC-11245-1] c33 N80-11326
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[NASA-CASE-XLE-00817] c28 N70-33265
- Encapsulated heater forming hollow body for cathode used in ion thruster
[NASA-CASE-LEW-10814-1] c28 N70-35422
- Electrostatic ion engines using high velocity electrons to ionize propellant
[NASA-CASE-XLE-00376] c28 N70-37245
- Electron bombardment ion rocket engine with improved propellant introduction system
[NASA-CASE-XLE-02066] c28 N71-15661
- ELECTROSTATIC GENERATORS**
Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
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[NASA-CASE-LEW-11583-1] c35 N79-17192
- ELECTROSTATIC PROBES**
Low impedance apparatus for measuring electrostatic field intensity near space vehicles
[NASA-CASE-XLE-00820] c14 N71-16014
- ELECTROSTATIC PROPULSION**
High voltage insulators for direct current in acceleration system of electrostatic thruster
[NASA-CASE-XLE-01902] c28 N71-10574
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[NASA-CASE-GSC-10709-1] c28 N71-25213
- ELECTROSTATIC SHIELDING**
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[NASA-CASE-LEW-12082-1] c20 N77-10148
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Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522
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Electrothermal rocket engine using resistance heated heat exchanger
[NASA-CASE-XLE-00267] c28 N70-33356
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Tracking mount for laser telescope employed in tracking large rockets and space vehicles to give information regarding azimuth and elevation
[NASA-CASE-MFS-14017] c14 N71-26627
- Automatic braking device for rapidly transferring humans or materials from elevated location
[NASA-CASE-IKS-07814] c15 N71-27067
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Centrifuge mounted motion simulator with elevator mechanism
[NASA-CASE-XAC-00399] c11 N70-34815
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[NASA-CASE-KSC-10513] c15 N72-25453
- ELEVONS**
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[NASA-CASE-XLA-08967] c02 N71-27088

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[NASA-CASE-XLA-03102] c14 N71-21079

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Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c43 N78-10529

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[NASA-CASE-XGS-04478] c14 N71-24233
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[NASA-CASE-LAR-11825-1] c35 N77-22449
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[NASA-CASE-LAR-12372-1] c37 N80-18399

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Amino acid analysis
[NASA-CASE-NPO-12130-1] c25 N75-14844
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c37 N80-14397

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Silent alarm system for multiple room facility or school
[NASA-CASE-NPO-11307-1] c10 N73-30205
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[NASA-CASE-MSC-10954-1] c54 N78-18761
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[NASA-CASE-XMS-01115] c05 N70-39922

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[NASA-CASE-XMS-06162] c31 N71-28851
Three transceiver lunar emergency system to relay voice communication of astronaut
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[NASA-CASE-MFS-23074-1] c54 N77-21844

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[NASA-CASE-XMP-02039] c15 N71-15871

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[NASA-CASE-XLA-06199] c15 N71-24875

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Inverted geometry transistor for use with monolithic integrated circuit
[NASA-CASE-ARC-10330-1] c09 N73-32112

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Apparatus for obtaining isotropic irradiation on film emulsion from parallel radiation source
[NASA-CASE-MFS-20095] c24 N72-11595

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[NASA-CASE-MFS-22324-1] c27 N75-27160
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c35 N79-19319

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[NASA-CASE-GSC-10007] c18 N71-16046
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[NASA-CASE-XGS-05180] c18 N71-25881
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[NASA-CASE-ERC-10150] c14 N71-28992
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[NASA-CASE-NPO-11190] c03 N71-34044
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[NASA-CASE-LEW-12185-1] c44 N78-25528

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[NASA-CASE-XMP-09422] c07 N71-19436

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[NASA-CASE-LAR-10941-2] c37 N79-13364

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[NASA-CASE-MFS-15162] c14 N72-32452
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c52 N80-16725

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[NASA-CASE-XLA-01781] c14 N69-39975

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[NASA-CASE-ARC-10097-2] c07 N73-25160

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[NASA-CASE-XLB-00810] c15 N70-34861
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[NASA-CASE-MSC-12279-1] c15 N70-35679
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[NASA-CASE-XLB-00720] c14 N70-40201
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[NASA-CASE-XMS-03722] c15 N71-21530
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[NASA-CASE-XMP-10040] c15 N71-22877
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[NASA-CASE-LAR-10193-1] c15 N71-27146
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[NASA-CASE-XMP-01848] c15 N71-28959
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[NASA-CASE-NPO-10671] c15 N72-20443
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[NASA-CASE-MFS-20863] c31 N73-26876
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[NASA-CASE-HQN-10638-1] c15 N73-30460

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Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c15 N75-13007

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Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XMP-00644] c03 N70-36803
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[NASA-CASE-XLB-01716] c09 N70-40234
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[NASA-CASE-GSC-11394-1] c09 N73-32109
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[NASA-CASE-NPO-13308-1] c36 N75-30524
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[NASA-CASE-MFS-23062-1] c37 N77-12402
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[NASA-CASE-NPO-13510-1] c44 N77-32581
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[NASA-CASE-NPO-13810-1] c44 N77-32582
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[NASA-CASE-NPO-14068-1] c44 N78-19609
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[NASA-CASE-NPO-14619-1] c44 N79-20513
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[NASA-CASE-MFS-23830-1] c44 N80-21831

ENERGY CONVERSION EFFICIENCY

Vacuum thermionic converter with short-circuited triodes and increased electron transmission and conversion efficiency
[NASA-CASE-XLB-01015] c03 N69-39898

- Direct conversion of thermal energy into electrical energy using crossed electric and magnetic fields
[NASA-CASE-XLE-00212] c03 N70-34134
- Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
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[NASA-CASE-GSC-12030-1] c44 N78-24608
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-1] c44 N78-25553
- Method of construction of a multi-cell solar array
[NASA-CASE-MPS-23540-1] c44 N79-26475
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c44 N80-14472
- Improving the efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c44 N80-32850
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Energy dissipating shock absorbing system for land payload recovery or vehicle braking
[NASA-CASE-XLA-00754] c15 N70-34850
- Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c02 N77-10001
- Motion restraining device
[NASA-CASE-NPO-13619-1] c37 N78-16369
- ENERGY DISTRIBUTION**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
- ENERGY LEVELS**
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c72 N80-14877
- ENERGY POLICY**
Solar energy power system
[NASA-CASE-MPS-21628-2] c44 N76-23675
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[NASA-CASE-MPS-23167-1] c44 N76-31667
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MPS-23267-1] c35 N77-20401
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c44 N78-19599
- Microwave power converter
[NASA-CASE-NPO-14068-1] c44 N78-19609
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[NASA-CASE-NPO-13581-2] c44 N78-31525
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[NASA-CASE-NPO-13813-1] c44 N78-31526
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c44 N78-31527
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c44 N79-14529
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c44 N79-24433
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c44 N80-20810
- Wind wheel electric power generator
[NASA-CASE-MPS-23515-1] c44 N80-21828
- Amplified wind turbine apparatus
[NASA-CASE-MPS-23830-1] c44 N80-21831
- Solar-heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c44 N80-24747
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c44 N80-29835
- ENERGY SOURCES**
Energy source with tantalum capacitors in parallel and miniature silver oxide button cells for initiating pyrotechnic devices on spacecraft and rocket vehicles
[NASA-CASE-LAR-10367-1] c03 N70-26817
- Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c33 N75-19522
- ENERGY STORAGE**
Switching mechanism with energy stored in coil spring
[NASA-CASE-XGS-00473] c03 N70-38713
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c33 N75-31331
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c52 N78-10686
- Energy storage apparatus
[NASA-CASE-GSC-12030-1] c44 N78-24608
- Rotatable mass for a flywheel
[NASA-CASE-MPS-23051-1] c37 N79-10422
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c44 N79-18455
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c44 N80-18557
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c44 N80-20810
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[NASA-CASE-NPO-13810-1] c44 N77-32582
- Method for producing solar energy panels by automation
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[NASA-CASE-NPO-13763-1] c44 N78-33526
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c25 N79-11152
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c44 N79-14528
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[NASA-CASE-XGS-00829-1] c44 N79-19447
- Solar energy collection system
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- Solar concentrator
[NASA-CASE-MPS-23727-1] c44 N80-14473
- Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c44 N80-14474
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[NASA-CASE-MPS-22743-1] c44 N76-22657
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[NASA-CASE-LEW-12661-1] c35 N79-14345
- ENGINE CONTROL**
Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-IMP-01096] c10 N71-16030
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c05 N75-12930
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c37 N78-25430
- ENGINE COOLANTS**
Apparatus for cooling and injecting hypergolic propellants into combustion chamber of small rocket engine
[NASA-CASE-XLE-00303] c15 N70-36535
- Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-IMP-00148] c28 N70-38710
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[NASA-CASE-XLE-103477-1] c28 N71-20330
- Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space
[NASA-CASE-IMP-02923] c28 N71-23081
- Space vehicle system
[NASA-CASE-MSC-12561-1] c18 N76-17185
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c07 N76-18131
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[NASA-CASE-NPO-11458A] c20 N78-32179
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c44 N78-33526
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- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c37 N80-31790
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[NASA-CASE-INP-02592] c24 N71-20518
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[NASA-CASE-LAR-10642-1] c07 N74-31270
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[NASA-CASE-ARC-10761-1] c07 N77-18154
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[NASA-CASE-LEW-11890-1] c05 N79-24976
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[NASA-CASE-INP-02592] c24 N71-20518
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[NASA-CASE-LAR-10642-1] c07 N74-31270
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-1] c07 N77-15036
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c07 N78-17055
- Multiple pure tone elimination strut assembly
[NASA-CASE-FRC-11062-1] c07 N80-32393
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[NASA-CASE-LEW-12390-1] c07 N78-17056
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[NASA-CASE-FRC-10113-1] c33 N80-26599
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[NASA-CASE-NPO-14368-1] c37 N79-17217
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[NASA-CASE-XLE-00266] c14 N70-34156
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[NASA-CASE-ARC-10153] c05 N71-28619
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[NASA-CASE-NPO-10141] c11 N71-24964
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c09 N79-33220
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- Portable environmental control and life support system for astronaut in and out of spacecraft
[NASA-CASE-INS-09632-1] c05 N71-11203
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[NASA-CASE-INP-03212] c15 N71-22721
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[NASA-CASE-XLA-07728] c33 N71-22890
- Dual solid cryogens for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
- Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
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[NASA-CASE-KSC-10198] c11 N71-28629
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[NASA-CASE-KSC-10031] c15 N72-22486
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[NASA-CASE-LAR-10076-1] c05 N73-20137
- Dual stage check valve for cryogenic supply systems used in space flight environmental control system
[NASA-CASE-MSC-13587-1] c15 N73-30459
- Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750
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[NASA-CASE-XLA-01243] c33 N71-22792
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[NASA-CASE-NPO-14124-1] c46 N80-14603
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[NASA-CASE-INS-02930] c11 N71-23042
- Space suit using nonflexible material with low leakage and providing protection against thermal extremes, physical punctures, and radiation with high mobility articulation
[NASA-CASE-XAC-07043] c05 N71-23161
- Flammability test chamber for testing materials in certain predetermined environments
[NASA-CASE-KSC-10126] c11 N71-24985
- Multiaxes vibration device for making vibration tests along orthogonal axes of test specimen
[NASA-CASE-NFS-20242] c14 N73-19421
- ENVIRONMENTS**
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[NASA-CASE-NFS-14710] c09 N72-22195
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[NASA-CASE-XGS-05533] c04 N69-27487
- Enzymatic luminescent bioassay method for determining bacterial levels in urine
[NASA-CASE-GSC-11092-2] c04 N73-27052
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- Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086
- EPICYCLOIDS**
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N79-20377
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- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLB-02545-1] c76 N79-21910
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[NASA-CASE-NFS-13994-1] c06 N71-11240
- Synthesis of siloxane containing epoxide and diamine polymers
[NASA-CASE-NFS-13994-2] c06 N72-25148

- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c15 N79-26100
- EPOXY RESINS**
- Nonmagnetic hermetically sealed battery case made of epoxy resin and woven glass tape for use with electrochemical cells in spacecraft
[NASA-CASE-IGS-00886] c03 N71-11053
- Epoxy resin sealing device for electrochemical cells in high vacuum environments
[NASA-CASE-IGS-02630] c03 N71-22974
- Cold metal hydroforming techniques using epoxy molds for counteracting creep or stretch
[NASA-CASE-XLB-05641-1] c15 N71-26346
- Miniature electromechanical junction transducer operating on piezofunction effect and utilizing epoxy for stress coupling component
[NASA-CASE-ERC-10087] c14 N71-27334
- Infusible polymer production from reaction of polyfunctional epoxy resins with polyfunctional aziridine compounds
[NASA-CASE-NPO-10701] c06 N71-28620
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c24 N74-30001
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c27 N76-16230
- Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LEW-13226-1] c23 N79-31345
- EQUIPMENT**
- Binmetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c31 N80-32583
- EQUIPMENT SPECIFICATIONS**
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[NASA-CASE-IAC-00042] c14 N70-34816
- High-temperature, high-pressure spherical segment valve
[NASA-CASE-IAC-00074] c15 N70-34817
- Remote-reading torquemeter for use where high horsepower are transmitted at high rotative speeds
[NASA-CASE-XLB-00503] c14 N70-34818
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[NASA-CASE-IAC-00030] c14 N70-34820
- Electric propulsion engine test chamber
[NASA-CASE-XLB-00252] c11 N70-34844
- Channel-type shell construction for rocket engines and related configurations
[NASA-CASE-XLB-00144] c28 N70-34860
- Non-reusable kinetic energy absorber for application in soft landing of space vehicles
[NASA-CASE-XLB-00810] c15 N70-34861
- Silt regulated gas journal bearing
[NASA-CASE-INP-00476] c15 N70-38620
- Specifications and drawings for semipassive optical communication system
[NASA-CASE-XLA-01090] c07 N71-12389
- Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-INP-06589] c05 N71-23159
- Development of vortex fluid amplifier for throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
- Simplified technique and device for producing industrial grade synthetic diamonds
[NASA-CASE-MPS-20698-2] c15 N73-19457
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c09 N74-19528
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MPS-21394-1] c34 N74-27744
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c35 N76-15434
- Field effect transistor and method of construction thereof
[NASA-CASE-MPS-23312-1] c33 N78-27326
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- Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 N71-11195
- Instrument for measuring potentials on two dimensional electric field plot
[NASA-CASE-XLA-08493] c10 N71-19421
- ERGOMETERS**
- Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MPS-21046-1] c14 N73-27377
- Versatile ergometer with work load control
[NASA-CASE-MPS-21109-1] c05 N73-27941
- Tilting table for testing human body in variety of positions while exercising on ergometer or other biomedical devices
[NASA-CASE-MPS-21010-1] c05 N73-30078
- Pneumatic foot pedal operated fluidic exercising device
[NASA-CASE-MSC-11561-1] c05 N73-32014
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MPS-21045-1] c35 N75-15932
- EROSION**
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c27 N78-17206
- ERROR ANALYSIS**
- Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N79-10263
- ERROR CORRECTING DEVICES**
- Error correction circuitry for binary signal channels
[NASA-CASE-INP-03263] c09 N71-18843
- Multiplexed communication system design including automatic correction of transmission errors introduced by frequency spectrum shifts
[NASA-CASE-INP-01306] c07 N71-20814
- Description of error correcting methods for use with digital data computers and apparatus for encoding and decoding digital data
[NASA-CASE-INP-02748] c08 N71-22749
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MPS-23551-1] c04 N76-26175
- Guide for a typewriter
[NASA-CASE-MPS-15218-1] c37 N77-19457
- ERROR DETECTION CODES**
- Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
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[NASA-CASE-MSC-18035-1] c33 N79-23347
- ERROR SIGNALS**
- Error correction circuitry for binary signal channels
[NASA-CASE-INP-03263] c09 N71-18843
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[NASA-CASE-GSC-10554-1] c08 N71-29033
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c32 N79-10263
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[NASA-CASE-MSC-13110-1] c08 N72-22163
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- Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
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[NASA-CASE-IGS-02342] c05 N71-11199
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[NASA-CASE-MSC-13281] c31 N72-18859
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 [NASA-CASE-MSC-12086-1] c05 N71-12345
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 transferring humans or materials from elevated
 location
 [NASA-CASE-XKS-07814] c15 N71-27067

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 lubricating compositions for use at extreme
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 [NASA-CASE-MFS-21040-1] c06 N73-30098

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 operations
 [NASA-CASE-XNP-02092] c15 N70-42033
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 [NASA-CASE-IGS-06306] c17 N71-16044
 Composition and process for improving definition
 of resin masks used in chemical etching
 [NASA-CASE-IGS-04993] c14 N71-17574
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 containing sulfuric acid, hydrofluoric acid,
 and an alkali metal dichromate for adhesive
 bonding
 [NASA-CASE-XNP-02303] c17 N71-23828
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 removing previous plating
 [NASA-CASE-IGS-03120] c15 N71-24047
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 [NASA-CASE-XNP-04148] c17 N71-24830
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 or plating metals on substrates without masking
 [NASA-CASE-NPO-11758-1] c31 N74-23065
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 otherwise incompatible substrates
 [NASA-CASE-MSC-18107-1] c35 N79-19319
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 vacuum chuck --- holding silicon chips for
 etching
 [NASA-CASE-NPO-15227-1] c37 N80-26661
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 [NASA-CASE-MFS-25363-1] c31 N80-32585

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Synthesis of multifunction triaryltrifluoroethanes
 [NASA-CASE-ARC-11097-1] c23 N78-22154
 Synthesis of multifunction triaryltrifluoroethanes
 [NASA-CASE-ARC-11097-2] c23 N78-22155

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 copolymers with stable properties when exposed
 to elevated temperatures and UV radiation
 [NASA-CASE-XNP-02584] c06 N71-20905
 Chemical synthesis of hydroxy terminated
 perfluoro ethers as intermediates for highly
 fluorinated polyurethane resins
 [NASA-CASE-NPO-10768] c06 N71-27254
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 terminated perfluoro ethers
 [NASA-CASE-NPO-10768-2] c06 N72-27144

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 [NASA-CASE-MSC-18430-1] c31 N80-17292

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Using ethylene oxide in preparation of
 sterilized solid rocket propellants and
 encapsulating materials
 [NASA-CASE-XNP-01749] c27 N70-41897
 Ethylene oxide sterilization and encapsulating
 process for sterile preservation of
 instruments and solid propellants
 [NASA-CASE-XNP-09763] c14 N71-20461
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 water systems on the space shuttle using
 ethylene oxide
 [NASA-CASE-KSC-11085-1] c54 N79-33848

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Bonding of sapphire to sapphire by eutectic
 mixture of aluminum oxide and zirconium oxide
 [NASA-CASE-GSC-11577-1] c37 N75-15992
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 exhibiting the Soret effect --- improved
 structure of eutectic alloy crystals
 [NASA-CASE-MFS-22926-1] c24 N77-27187
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 [NASA-CASE-LEW-12906-1] c26 N77-32279
 Directionally solidified eutectic gamma-gamma
 nickel-base superalloys

[NASA-CASE-LEW-12905-1] c26 N78-18183
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 mixture of aluminum oxide and zirconium oxide
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 filler
 [NASA-CASE-XMS-01108] c15 N69-24322
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 container such as space jackets
 [NASA-CASE-XNP-03290] c15 N71-23256
 Gas leak detection in evacuated systems using
 ultraviolet radiation probe
 [NASA-CASE-EBC-10034] c15 N71-24896
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 tubular bodies from thermosetting plastics
 [NASA-CASE-LAR-10782-2] c31 N75-13111

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Evaporating crucible of tantalum-tungsten foil,
 nickel alumina bonding agent, and ceramic
 coating
 [NASA-CASE-XLA-03105] c15 N69-27483

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Tubular sublimatory evaporator heat sink
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 vacuum deposition of solid thin films on
 substrates
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 and evaporator filament
 [NASA-CASE-LAR-10541-1] c15 N72-32487

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 --- gas turbine shaft seals
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 jets to reduce velocity, noise, and temperature
 [NASA-CASE-XNP-01813] c28 N70-41582
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 [NASA-CASE-ARC-10712-1] c07 N74-33218
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 [NASA-CASE-LAR-11570-1] c34 N76-18364
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 [NASA-CASE-LEW-12452-1] c07 N78-25089
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 [NASA-CASE-LEW-12990-1] c07 N78-27122
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 [NASA-CASE-NPO-14260-1] c28 N79-28342

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High thrust annular liquid propellant rocket
 engine and exhaust nozzle design
 [NASA-CASE-XLE-00078] c28 N70-33284
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 thrust
 [NASA-CASE-XLA-00154] c28 N70-33374
 Penshaped, supersonic exhaust nozzle design
 [NASA-CASE-XLE-00057] c28 N70-38711
 Automatic ejection valve for attitude control
 and midcourse guidance of space vehicles
 [NASA-CASE-XNP-00676] c15 N70-38996
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 [NASA-CASE-LAR-10951-1] c28 N73-19819
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 [NASA-CASE-LAR-11919-1] c07 N78-27121
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 [NASA-CASE-LEW-12378-1] c07 N79-14097

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 resistant foams
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 solar cell array of Nimbus satellite
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automatically expanded to operating state
[NASA-CASE-KSC-10392] c07 N73-26117
Expandable space frames with high expansion to
collapse ratio
[NASA-CASE-ERC-10365-1] c31 N73-32749
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wires --- by storing extra length of wire in
stretchable loop
[NASA-CASE-LAR-10168-1] c33 N74-22865
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spacecraft --- extensible and retractable
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[NASA-CASE-GSC-12331-1] c18 N80-14183
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[NASA-CASE-XLA-00229] c12 N70-33305
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[NASA-CASE-XNP-03378] c03 N71-11051
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level signals from skin of living creatures
[NASA-CASE-ARC-10043-1] c05 N71-11193
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astronaut cardiovascular system in gravity
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[NASA-CASE-XLA-02898] c05 N71-20268
Space suit using nonflexible material with low
leakage and providing protection against
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radiation with high mobility articulation
[NASA-CASE-YAC-07043] c05 N71-23161
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[NASA-CASE-LAR-10739-1] c10 N73-16484
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joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490
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for actuator device
[NASA-CASE-IGS-00824] c15 N71-16078
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magnetic field without generation of
detrimental magnetic fields
[NASA-CASE-IGS-02422] c15 N71-21529
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[NASA-CASE-LAR-10800-1] c33 N72-27959
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[NASA-CASE-NPO-11330] c33 N73-26958
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[NASA-CASE-MSC-18179-1] c20 N80-18097
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Electric discharge apparatus for
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[NASA-CASE-XMP-00375] c15 N70-34249
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Totally confined explosive welding --- apparatus
to reduce noise level and protect personnel
during explosive bonding
[NASA-CASE-LAR-10941-1] c37 N74-21057
Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c37 N75-12326
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c37 N79-13364
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Production of intermetallic compounds by effect
of shock waves from explosions and compaction
of powder
[NASA-CASE-MPS-20861-1] c18 N73-32437
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c28 N74-27425
Electroexplosive device
[NASA-CASE-NPO-13858-1] c28 N79-11231
- EXPONENTIAL FUNCTIONS**
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c08 N72-20176
- EXPOSURE**
Mechanical exposure interlock device for
preventing film overexposure in oscilloscope
camera
[NASA-CASE-LAR-10319-1] c14 N73-32322
Selective image area control of X-ray film
exposure density
[NASA-CASE-NPO-13808-1] c35 N78-15461
- EXPULSION BLADDERS**
Expulsion bladder equipped storage tank structure
[NASA-CASE-XNP-00612] c11 N70-38182
Rubber composition for expulsion bladders and
diaphragms for use with hydrazine
[NASA-CASE-NPO-11433] c18 N71-31140
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Support for flexible conductor cable between
drawers or racks holding electronic equipment
and cabinet assembly housing drawers or racks
[NASA-CASE-XMP-07587] c15 N71-18701
- EXTENSOMETERS**
Transducer frame for use with extensometer to
continuously monitor specimen sample
[NASA-CASE-XLA-10322] c15 N72-17452
Conductive elastomeric extensometer
[NASA-CASE-MPS-21049-1] c52 N74-27864
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 N77-22449
Laser extensometer
[NASA-CASE-MPS-19259-1] c36 N78-14380
- EXTERNAL STORES**
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c08 N80-22359
- EXTRACTION**
Liquid-gas separator adapted for use in zero
gravity environment - drawings
[NASA-CASE-XMS-01624] c15 N70-40062
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c37 N79-33467
- EXTRAVEHICULAR ACTIVITY**
Portable environmental control and life support
system for astronaut in and out of spacecraft
[NASA-CASE-XMS-09632-1] c05 N71-11203
Hand-held maneuvering unit for propulsion and
attitude control of astronauts in zero or
reduced gravity environment
[NASA-CASE-XMS-05304] c05 N71-12336
Internal and external serpentine devices for
performing physical operations around orbital
space stations
[NASA-CASE-XMP-05344] c31 N71-16345
Releasable, pin-type fastener, easily operated
during EVA
[NASA-CASE-ARC-10140-1] c15 N71-17653
Design and development of flexible tunnel for
use by spacecrews in performing extravehicular
activities
[NASA-CASE-MSC-12243-1] c05 N71-24728
Open loop life support subsystem using breathing
bag as reservoir for EVA
[NASA-CASE-MSC-12411-1] c05 N72-20096
Intra- and extravehicular life support space
suite for Apollo astronauts
[NASA-CASE-MSC-12609-1] c05 N73-32012
- EXTREMELY LOW RADIO FREQUENCIES**
VHF/UHF parasitic probe antenna for spacecraft
communication
[NASA-CASE-XMS-09340] c07 N71-24614
Frequency tracked pulse technique for ultrasonic
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[NASA-CASE-LAR-12697-1] c32 N80-26571
- EXTRUDING**
Hydrostatic extrusion of refractory materials
using simple press
[NASA-CASE-NPO-10811] c15 N71-34425
Extrusion can for extruding ceramics under heat
and pressure
[NASA-CASE-NPO-10812] c15 N73-13464
Brazing alloy binder
[NASA-CASE-XMP-05868] c26 N75-27125
Continuous coal processing method and means
[NASA-CASE-NPO-13758-2] c28 N80-10377
- EYE (ANATOMY)**
Sight switch using infrared source and sensor
mounted beside eye
[NASA-CASE-XMP-03934] c09 N71-22985

EYE EXAMINATIONS

Ultrasonic device for ophthalmic eye surgery with safe removal of macerated material
[NASA-CASE-LEW-11669-1] c05 H73-27062

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c04 H77-12031

Corneal seal device
[NASA-CASE-LEW-12258-1] c52 H77-28716

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c52 H80-18690

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c74 H80-27185

EYE EXAMINATIONS

Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 H73-26072

Multiparameter vision testing apparatus
[NASA-CASE-MS-C-13601-2] c54 H75-27759

Visual examination apparatus
[US-PATENT-RE-28,921] c52 H76-30793

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Wide angle eyepiece with long eye-relief distance
[NASA-CASE-XMS-06056-1] c23 H71-24857

F

FABRICATION

Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 H69-21541

Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLB-00150] c28 H70-41818

Fabrication methods for matrices of solar cell submodules
[NASA-CASE-XNP-05821] c03 H71-11056

Capacitor fabrication by solidifying mixture of ferromagnetic metal particles, nonferromagnetic particles, and dielectric material
[NASA-CASE-LEW-10364-1] c09 H71-13522

Method and apparatus for fabricating solar cell panels
[NASA-CASE-XNP-03413] c03 H71-26726

Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MS-C-12398] c05 H72-20098

Method of fabricating equal length insulated wire
[NASA-CASE-PRC-10038] c15 H72-20444

Development of thin film temperature sensor from TaO
[NASA-CASE-NPO-11775] c26 H72-28761

Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c44 H76-28635

Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 H77-28933

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c27 H78-32262

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c44 H79-17314

Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c44 H79-18444

Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c44 H79-18446

Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c44 H79-24431

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c44 H80-14474

Castable high temperature refractory materials
[NASA-CASE-LEW-13080-1] c27 H80-29496

Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c44 H80-29835

FABRICS

Fabrication of root cord restrained fabric suit sections from sheets of fabric
[NASA-CASE-MS-C-12398] c05 H72-20098

Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c35 H77-22449

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Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c31 H79-11246

Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c27 H80-23454

Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-C-18382-1] c27 H80-24440

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Fabry-Perot interferometer retrodirective reflector modulator for optical communication
[NASA-CASE-XGS-04480] c16 H69-27491

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Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 H72-12081

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c35 H75-19613

FACTORY DESIGN

Space suit with pressure-volume compensator system
[NASA-CASE-XLA-05332] c05 H71-11194

Equipotential space suits utilizing mechanical aids to minimize astronaut energy at bending joints
[NASA-CASE-LAR-10007-1] c05 H71-11195

FAIL-SAFE SYSTEMS

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[NASA-CASE-NPO-11078] c09 H72-25262

Latch mechanism
[NASA-CASE-MS-C-12549-1] c37 H74-27903

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQW-10888-1] c44 H79-14527

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c33 H79-24254

Reconfiguring redundancy management
[NASA-CASE-MS-C-18498-1] c60 H80-30050

FAILURE ANALYSIS

Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c39 H79-22537

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Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 H72-22490

Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c35 H74-18090

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System for deploying and ejecting releasable clamshell fairing sections from spinning sounding rockets
[NASA-CASE-GSC-10590-1] c31 H73-14853

FALLING SPHERES

Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XNP-05844] c14 H71-17587

FAR INFRARED RADIATION

Collimator for analyzing spatial location of near and distant sources of radiation
[NASA-CASE-NPS-20546-2] c14 H73-30389

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Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases
[NASA-CASE-XNP-09802] c33 H71-15641

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Faraday rotation measurement method and apparatus --- to receive RF signals from spacecraft which exhibits polarization characteristics due to spin stabilization
[NASA-CASE-NPO-14839-1] c35 H80-16313

FASTENERS

Force measuring instrument for structural members, particularly fastening bolts or studs
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Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 H70-36493

Nut and bolt fastener permitting all-directional movement of skin sections with respect to supporting structure
[NASA-CASE-XLA-01807] c15 H71-10799

Releasable, pin-type fastener, easily operated during EVA
[NASA-CASE-ARC-10140-1] c15 H71-17653

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- Ultrasonic wrench for applying vibratory energy to mechanical fasteners
[NASA-CASE-MPS-20586] c15 N71-17686
- Design and development of electric connectors for rigid and semirigid coaxial cables
[NASA-CASE-XNP-04732] c09 N71-20851
- Design, development, and characteristics of latching mechanism for operation in limited access areas
[NASA-CASE-XMS-03745] c15 N71-21076
- Design and development of module joint clamping device for application to solar array construction
[NASA-CASE-XNP-02341] c15 N71-21531
- Threadless fastener apparatus comprising receiving apertures for plurality of articles, self-locked condition, and capable of using nonwalleable materials in both ends
[NASA-CASE-XPR-05302] c15 N71-23254
- Development of resilient fastener for attaching skin of aerospace vehicles to permit movement of skin relative to framework
[NASA-CASE-XLA-01027] c31 N71-24035
- Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975
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- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c37 N79-33467
- One step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c37 N80-11469
- FATIGUE (MATERIALS)**
- Servocontrol system for measuring local stresses at geometric discontinuity in stressed material
[NASA-CASE-XLA-08530] c32 N71-25360
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c39 N78-16387
- FATIGUE LIFE**
- Fatigue resistant shear pin with hollow shaft and two plugs
[NASA-CASE-XLA-09122] c15 N69-27505
- Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052
- Method for reducing mass of ball bearings for long life operation at high speed
[NASA-CASE-LEW-10856-1] c15 N72-22490
- Fatigue life of hybrid antifriction bearings at ultrahigh speeds
[NASA-CASE-LEW-11152-1] c15 N73-32359
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
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- FATIGUE TESTING MACHINES**
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[NASA-CASE-XNP-10968] c14 N71-24234
- Fatigue testing apparatus with light shield and infrared reflector for high temperature evaluation of loaded sheet samples
[NASA-CASE-XLA-01782] c14 N71-26136
- FATIGUE TESTS**
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[NASA-CASE-XLA-02131] c32 N70-42003
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c39 N79-22537
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c39 N80-25693
- FATS**
- Oil and fat absorbing polymers
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[NASA-CASE-XLE-02902] c25 N71-21694
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[NASA-CASE-XNP-00650] c27 N71-28929
- Pressurized tank for feeding liquid waste into processing equipment
[NASA-CASE-LAR-10365-1] c05 N72-27102
- Pressurized inert gas feed for lighting system
[NASA-CASE-KSC-10644] c09 N72-27227
- Dual frequency feed systems for Cassegrainian antennas
[NASA-CASE-NPO-13091-1] c09 N73-12214
- Improved injector with porous plug for bubbles of gas into feed lines of electrically conductive liquid
[NASA-CASE-NPO-11377] c15 N73-27406
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[NASA-CASE-NPO-13758-2] c28 N80-10377
- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c20 N80-14188
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c31 N80-18231
- FEEDBACK**
- RC networks with voltage amplifier, RC input circuit, and positive feedback
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- Multistage feedback shift register with states decomposable into cycles of equal length
[NASA-CASE-NPO-11082] c08 N72-22167
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c09 N72-25254
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[NASA-CASE-LAR-12562-1] c08 N79-20135
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[NASA-CASE-MSC-13276-1] c14 N71-27058
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[NASA-CASE-XNP-01107] c10 N71-28859
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[NASA-CASE-MSC-13492-1] c10 N71-28860
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[NASA-CASE-XGS-04999] c09 N69-24317
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[NASA-CASE-NPO-10351] c08 N71-12503
- Frequency control network for current feedback oscillators converting dc voltage to ac or higher dc voltages
[NASA-CASE-GSC-10041-1] c10 N71-19418
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[NASA-CASE-XAC-10607] c10 N71-23669
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[NASA-CASE-LAR-10253-1] c09 N72-25258
- Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NPO-11406] c08 N73-12175
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[NASA-CASE-GSC-12145-1] c33 N78-32339
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[NASA-CASE-XAC-04031] c08 N71-18594
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[NASA-CASE-XGS-03303] c08 N71-18595
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[NASA-CASE-XKS-06167] c08 N71-24890
- Feedback control for direct current motor to achieve constant speed under varying loads
[NASA-CASE-NFS-14610] c09 N71-28886
- Feedback controller for sampling error signals within single control formulation time interval
[NASA-CASE-GSC-10554-1] c08 N71-29033
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[NASA-CASE-NPO-10700] c07 N71-33613
- Development of aerodynamic control system to control flutter over large range of oscillatory frequencies using stability augmentation techniques
[NASA-CASE-LAR-10682-1] c02 N73-26004

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[NASA-CASE-HQM-10792-1] c33 N74-11049
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
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[NASA-CASE-NPO-13512-1] c33 N77-10428
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[NASA-CASE-HQM-10880-1] c17 N78-17140
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[NASA-CASE-LEW-11981-1] c31 N78-17237
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[NASA-CASE-GSC-12146-1] c33 N78-32340
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[NASA-CASE-NPO-14311-1] c32 N79-14276
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[NASA-CASE-FEC-11055-1] c33 N80-29583

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[NASA-CASE-XLA-01127] c07 N70-41372
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[NASA-CASE-NPO-11282] c10 N73-16205
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[NASA-CASE-ARC-10302-1] c51 N74-15778

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[NASA-CASE-LAR-12259-1] c54 N78-18762

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[NASA-CASE-HSC-12619-2] c27 N79-12221

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[NASA-CASE-ARC-11007-1] c52 N77-14736
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[NASA-CASE-HSC-16433-1] c52 N78-27750
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[NASA-CASE-GSC-10097-1] c08 N71-27210
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[NASA-CASE-LAR-10994-1] c24 N75-13032
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[NASA-CASE-XLB-03629] c17 N71-23248

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[NASA-CASE-ARC-11169-1] c24 N79-24062
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[NASA-CASE-ARC-11246-1] c24 N80-22410
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[NASA-CASE-ARC-11321-1] c27 N80-31551

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Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-XNP-02433] c14 N71-10616

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[NASA-CASE-NPO-13531-1] c36 N76-24553
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[NASA-CASE-KSC-11047-1] c74 N78-14889
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[NASA-CASE-GSC-12263-1] c74 N79-20857
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[NASA-CASE-GSC-12587-1] c35 N80-29635
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[NASA-CASE-NPO-15036-1] c74 N80-34250

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[NASA-CASE-XNP-00597] c18 N71-23088
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[NASA-CASE-LAR-11224-1] c37 N76-18456
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[NASA-CASE-LAR-12019-1] c24 N78-17150
Method of manufacture of bonded fiber flywheel
[NASA-CASE-HFS-23674-1] c24 N78-27182
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[NASA-CASE-NPO-13732-1] c44 N79-10513
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[NASA-CASE-LAR-12564-1] c37 N80-17468

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[NASA-CASE-XNP-07040] c08 N71-12500
Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882
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[NASA-CASE-NPO-10199] c09 N72-17156
Development and characteristics of data multiplexer circuit using field effect transistors arranged in tree switching configuration
[NASA-CASE-NPO-11333] c08 N72-22162
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[NASA-CASE-GSC-10835-1] c09 N72-33205
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[NASA-CASE-GSC-11425-1] c76 N74-20329
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[NASA-CASE-NPO-11156-2] c33 N75-31331
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[NASA-CASE-HFS-23312-1] c33 N78-27326
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[NASA-CASE-GSC-12515-1] c33 N80-12281
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[NASA-CASE-BRC-10015-2] c10 N72-27246

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[NASA-CASE-XNP-02107] c15 N71-10809
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[NASA-CASE-XLB-03803-2] c15 N71-17651
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[NASA-CASE-LEW-11015] c26 N73-32571
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[NASA-CASE-XLB-00387] c33 N70-34812
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 [NASA-CASE-IMS-01108] c15 N69-24322
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 [NASA-CASE-ARC-11043-1] c24 N78-27180
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 [NASA-CASE-ARC-11310-1] c27 N80-23454
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 [NASA-CASE-INP-04389] c28 N71-20942
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 [NASA-CASE-NPO-13650-1] c25 N79-28253
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 [NASA-CASE-MFS-20095] c24 N72-11595
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 [NASA-CASE-NPO-13443-1] c76 N76-20994
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 [NASA-CASE-MFS-14711] c15 N71-26185
 Heated tungsten filter for removing oxygen impurities from cesium
 [NASA-CASE-INP-04262-2] c17 N71-26773
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 [NASA-CASE-LAR-10194-1] c34 N74-30608
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 [NASA-CASE-XLE-03583] c31 N71-17629
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 [NASA-CASE-LAR-10753-1] c08 N74-30421
- FIRE EXTINGUISHERS**
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 [NASA-CASE-KSC-11064-1] c34 N78-22328
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 [NASA-CASE-ARC-113261-1] c25 N80-31490
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 Hydrogen fire blink detector for high altitude rocket or ground installation
 [NASA-CASE-MFS-15063] c14 N72-25412
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 [NASA-CASE-GSC-11600-1] c35 N74-21019
- FIREPROOFING**
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 [NASA-CASE-GSC-10072] c18 N71-14014
 Lightweight fire resistant plastic foam for thermal protection of reentry vehicles and aircraft structures
 [NASA-CASE-ARC-10180-1] c28 N72-20767
 Intumescent paint containing nitrile rubber for fire protection
 [NASA-CASE-ARC-10196-1] c18 N73-13562
 Para-benzoquinone dioxime and concentrated mineral acid processed to yield intumescent or fire resistant, heat insulating materials
 [NASA-CASE-ARC-10304-1] c18 N73-26572
 Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
 [NASA-CASE-ARC-10180-1] c27 N74-12814
 Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
 [NASA-CASE-MSC-14331-1] c27 N76-24405
 Flame retardant spandex type polyurethanes
 [NASA-CASE-MSC-14331-2] c27 N78-17213
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 [NASA-CASE-ARC-11104-1] c15 N79-26100
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 [NASA-CASE-GSC-11095-1] c14 N72-10375
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 [NASA-CASE-MFS-13130] c10 N72-17173
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 [NASA-CASE-IGS-01971] c15 N71-15922
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 [NASA-CASE-XLA-01141] c15 N71-13789
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 [NASA-CASE-XLA-05056] c15 N72-11389
- FIXED WINGS**
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 [NASA-CASE-XLA-04451] c02 N71-12243
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 Tool for use in lifting pin supported objects
 [NASA-CASE-NPO-13157-1] c37 N74-32918
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 [NASA-CASE-LAR-11465-1] c37 N76-21554
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 [NASA-CASE-LAR-11821-1] c26 N80-28492
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 [NASA-CASE-MFS-21577-1] c19 N74-29410
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 [NASA-CASE-MSC-14331-2] c27 N78-17213
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 [NASA-CASE-MSC-16307-1] c25 N78-27232
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 [NASA-CASE-ARC-11174-1] c24 N78-28178
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 [NASA-CASE-MSC-14331-3] c27 N78-32262
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 [NASA-CASE-ARC-11107-1] c25 N80-16116
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 [NASA-CASE-LAR-12099-1] c27 N80-16158
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 [NASA-CASE-MSC-14903-3] c27 N80-24438
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- FLAME SPRAYING**
 Flame or plasma spraying for molybdenum coating of carbon or graphite surfaces to prevent oxidative corrosion
 [NASA-CASE-XLA-00302] c15 N71-16077
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 [NASA-CASE-ARC-10098-1] c06 N71-24739
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 [NASA-CASE-LAR-10170-1] c37 N74-11301
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 [NASA-CASE-LEW-11877-1] c34 N78-27357
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 [NASA-CASE-XLE-00035] c33 N71-29151
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 [NASA-CASE-ARC-10322-1] c35 N76-18403
- FLAMMABILITY**
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 [NASA-CASE-KSC-10126] c11 N71-24985
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 [NASA-CASE-IMS-09690] c33 N72-25913

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[NASA-CASE-MSC-14903-2] c27 N80-10358

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[NASA-CASE-MSC-16074-1] c27 N80-26446

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[NASA-CASE-XNP-00683] c09 N70-35425

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[NASA-CASE-NPO-10337] c14 N71-15604

Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c39 N76-31562

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Upper surface, external flow, jet-augmented flap configuration for high wing jet aircraft for noise reduction
[NASA-CASE-XLA-00087] c02 N70-33332

Assembly for opening flight capsule stabilizing and decelerating flaps with reference to capsule recovery
[NASA-CASE-XNP-00641] c31 N70-36410

Direct lift control system having flaps with slots adjacent to their leading edge and particularly adapted for lightweight aircraft
[NASA-CASE-LAR-10249-1] c02 N71-26110

Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c07 N75-24736

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Development and characteristics of strainer for flared tube fitting
[NASA-CASE-XLA-05056] c15 N72-11389

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[NASA-CASE-XNP-03498] c15 N71-15986

Shielded flat conductor cable fabricated by electroless and electrolytic plating
[NASA-CASE-MPS-13687] c09 N71-28691

Shielded flat conductor cable of ribbonlike wires laminates in thin flexible insulation
[NASA-CASE-MPS-13687-2] c09 N72-22198

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[NASA-CASE-MPS-20757] c09 N72-28225

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[NASA-CASE-MPS-10946-1] c31 N79-21226

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[NASA-CASE-XNP-05757-1] c31 N79-21227

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[NASA-CASE-XLE-02624] c12 N69-39988

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[NASA-CASE-MPS-20698] c15 N72-20446

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[NASA-CASE-MPS-22938-1] c34 N76-18374

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[NASA-CASE-GSC-11998-1] c34 N77-32413

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[NASA-CASE-LAR-12148-1] c44 N79-29608

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[NASA-CASE-XKS-08485] c07 N71-19493

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[NASA-CASE-INP-01855] c15 N71-28937

Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c54 N74-32546

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[NASA-CASE-LAR-12147-1] c31 N79-11246

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c44 N79-14527

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Flexible backup bar for welding awkwardly shaped structures
[NASA-CASE-XNP-00722] c15 N70-40204

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[NASA-CASE-XNP-09808] c09 N71-12518

Flexible composite membrane structure impervious to extremely reactive chemicals in rocket propellants
[NASA-CASE-XNP-08837] c18 N71-16210

Development and characteristics of self supporting space vehicle
[NASA-CASE-XLA-00117] c31 N71-17680

Design and development of flexible tunnel for use by spacecrews in performing extravehicular activities
[NASA-CASE-MSC-12243-1] c05 N71-24728

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[NASA-CASE-LAR-10106-1] c15 N71-27169

Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747

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[NASA-CASE-LAR-10270-1] c32 N72-25877

Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421

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[NASA-CASE-MPS-19193-1] c37 N75-19686

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[NASA-CASE-MSC-18422-1] c37 N80-14400

Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c27 N80-16163

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[NASA-CASE-XLA-06095] c01 N69-39981

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[NASA-CASE-XLA-01220] c02 N70-41863

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[NASA-CASE-XLA-06958] c02 N71-11038

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[NASA-CASE-ARC-10345-1] c15 N73-12488

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[NASA-CASE-ARC-11314-1] c54 N80-30043

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[NASA-CASE-ERC-10412-1] c09 N73-12211

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[NASA-CASE-FRC-10049-1] c04 N74-13420

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[NASA-CASE-LAR-12275-1] c35 N79-18296

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[NASA-CASE-XLA-00487] c14 N70-40157

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[NASA-CASE-XPR-04104] c03 N70-42073

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[NASA-CASE-XAC-00048] c02 N71-29128

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[NASA-CASE-NPO-11497] c08 N73-25206

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[NASA-CASE-MSC-12394-1] c08 N74-10942
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[NASA-CASE-ARC-10806] c06 N74-27872
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[NASA-CASE-ARC-10456-1] c05 N75-12930
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[NASA-CASE-LAR-11575-1] c02 N76-16014
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[NASA-CASE-PRC-11041-1] c33 N80-20488

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[NASA-CASE-ILA-00118] c05 N70-33285

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[NASA-CASE-LAR-11941-1] c06 N77-20098

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[NASA-CASE-ILA-01832] c14 N71-21006

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[NASA-CASE-ILA-00115] c03 N70-33343
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[NASA-CASE-LAR-10717-1] c21 N73-30641

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[NASA-CASE-IPR-00929] c31 N70-34966
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[NASA-CASE-IPR-03107] c09 N71-19449
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[NASA-CASE-XKS-04631] c10 N71-23663

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[NASA-CASE-XAC-00399] c11 N70-34815
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[NASA-CASE-INP-00708] c14 N70-35394
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[NASA-CASE-NPO-11497] c08 N73-25206
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[NASA-CASE-LAR-10550-1] c09 N74-30597
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[NASA-CASE-ARC-10808-1] c09 N76-24280
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[NASA-CASE-ARC-10903-1] c09 N78-18083
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[NASA-CASE-LAR-12251-1] c74 N79-14892
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[NASA-CASE-LAR-12320-1] c54 N79-25761
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[NASA-CASE-LAR-12149-2] c09 N79-31228
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[NASA-CASE-ILA-01486] c01 N71-23497
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[NASA-CASE-XMS-01994-1] c14 N72-17326
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[NASA-CASE-LAR-10531-1] c02 N73-13023

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[NASA-CASE-XGS-00823] c10 N71-15910
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[NASA-CASE-GSC-10366-1] c10 N71-18772
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[NASA-CASE-LAR-10241-1] c54 N74-14845
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[NASA-CASE-MSC-16938-1] c37 N80-23653

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[NASA-CASE-BRC-10208] c15 N70-10867
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[NASA-CASE-ILA-01353] c14 N70-41366
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[NASA-CASE-XNP-01779] c12 N71-20815
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[NASA-CASE-ARC-10637-1] c35 N75-16783
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[NASA-CASE-LEW-12078-1] c35 N75-30503
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[NASA-CASE-ARC-10900-1] c35 N77-24454
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 [NASA-CASE-FRC-11029-1] c02 N79-31139

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 [NASA-CASE-XNP-06509] c14 N71-23226
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 [NASA-CASE-XAC-02970] c14 N69-39896
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 [NASA-CASE-XMP-01779] c12 N71-20815

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 [NASA-CASE-XMS-04917] c14 N69-24257
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 [NASA-CASE-XMP-02822] c14 N70-41994
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 [NASA-CASE-MSC-12084-1] c12 N71-17569
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 [NASA-CASE-XPR-02007] c12 N71-24692
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 [NASA-CASE-XAC-10770-1] c16 N71-24828
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 [NASA-CASE-FRC-10022] c12 N71-26546
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 [NASA-CASE-MFS-20485] c14 N72-11365
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 [NASA-CASE-MSC-13436-1] c05 N73-32015
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 [NASA-CASE-ARC-10362-1] c14 N73-32326
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 [NASA-CASE-LEW-10981-1] c35 N74-21018
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 [NASA-CASE-KSC-11076-1] c35 N79-27479

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 [NASA-CASE-XLE-03512] c12 N69-21466
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 [NASA-CASE-XMP-04709] c15 N71-15609
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 [NASA-CASE-MFS-10412] c12 N71-17578
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 [NASA-CASE-LEW-11076-1] c37 N74-21061
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 [NASA-CASE-XMS-04843] c03 N69-21469
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 [NASA-CASE-XLE-00715] c15 N70-34859
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 [NASA-CASE-XNP-00450] c15 N70-38603
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- Micropacked column for rapid chromatographic analysis using low gas flow rates [NASA-CASE-XNP-04816] c06 N69-39936
- Automatic baseline stabilization for ionization detector used in gas chromatograph [NASA-CASE-XNP-03128] c10 N70-41991
- Gas chromatographic method for determining water in nitrogen tetroxide rocket propellant [NASA-CASE-NPO-10234] c06 N72-17094
- Development and characteristics of injection system for use with gas chromatograph [NASA-CASE-ARC-10344-1] c14 N72-21433
- Gas chromatographic method for analyzing hydrogen deuterium mixtures [NASA-CASE-NPO-11322] c06 N72-25146
- Ultraviolet chromatographic detector for quantitative and qualitative analysis of compounds [NASA-CASE-HQN-10756-1] c14 N72-25428
- Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography [NASA-CASE-GSC-10903-1] c14 N73-12444

- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c25 N80-23383
- GAS COMPOSITION**
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c25 N80-20334
- GAS COOLED REACTORS**
Gaseous core diffusion nuclear reactor for thermal energy generation
[NASA-CASE-LEW-10250-1] c22 N71-28759
- GAS COOLING**
Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190
Gas cooled high temperature thermocouple
[NASA-CASE-XLE-09475-1] c33 N71-15568
- GAS DENSITY**
Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
Coherent light beam device and method for measuring gas density in vacuum chambers
[NASA-CASE-XER-11203] c14 N71-28994
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
Electrodeposition method for producing crystalline material from dense gaseous medium
[NASA-CASE-NPO-10440] c15 N72-21466
Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958
- GAS DETECTORS**
Method and transducer device for detecting presence of hydrogen gas
[NASA-CASE-XMP-03873] c06 N69-39733
Development of device for detecting hydrogen in ambient environments
[NASA-CASE-MFS-11537] c14 N71-20442
Gas leak detection in evacuated systems using ultraviolet radiation probe
[NASA-CASE-ERC-10034] c15 N71-24896
Fast response miniature carbon dioxide detector with no moving parts for measuring concentration in any atmosphere
[NASA-CASE-MSC-13332-1] c14 N72-21408
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c45 N75-27585
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c35 N75-29380
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c35 N76-22509
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c35 N78-13400
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c25 N79-10169
- GAS DISCHARGE TUBES**
Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
- GAS DISCHARGES**
Radio frequency noise generator having microwave slow-wave structure in gas discharge plasma
[NASA-CASE-XER-11019] c09 N71-23598
- GAS EVOLUTION**
Development of filter system for control of outgas contamination in vacuum conditions using absorbent beds of molecular sieve zeolite, silica gel, and charcoal
[NASA-CASE-MFS-14711] c15 N71-26185
- GAS EXPANSION**
Sealed electric storage battery with gas manifold interconnecting each cell
[NASA-CASE-XNP-03378] c03 N71-11051
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Gas-operated actuator with cyclic motion of expansion chamber
[NASA-CASE-NPO-11340] c15 N72-33477
- GAS FLOW**
Tubular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MFS-12806] c14 N71-17588
Burst diaphragm flow initiator for installation in short duration wind tunnels
[NASA-CASE-MFS-12915] c11 N71-17600
Color photointerpretation of interference colors reflected from thin film oil-coated components in moving gases for gas flow visualization
[NASA-CASE-XNP-01779] c12 N71-20815
Transducer for monitoring oxygen flow in respirator
[NASA-CASE-FRC-10012] c14 N72-17329
Design, development, and operation of shock tube with bypass piston tunnel
[NASA-CASE-NPO-12109] c11 N72-22245
Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
Development of filter apparatus for gas separation and characteristics of filter cell support frame for improved operation
[NASA-CASE-MSC-12297] c14 N72-23457
Pressurized inert gas feed for lighting system
[NASA-CASE-KSC-10644] c09 N72-27227
Development of method for controlling vapor content of gas
[NASA-CASE-NPO-10633] c03 N72-28025
Gas flow control device, including housing and input port
[NASA-CASE-NPO-11479] c15 N73-13462
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c34 N74-27730
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c77 N75-20139
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c35 N75-30503
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c35 N78-10428
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c37 N78-17384
- GAS GENERATORS**
Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
Gas operated quick disconnect coupling for umbilical connectors
[NASA-CASE-NPO-11202] c15 N72-25450
Actuator operated by electrolytic drive gas generator and evacuator
[NASA-CASE-NPO-11369] c15 N73-13467
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c37 N76-16446

- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c44 N76-18642
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636
- GAS GUNS**
- Electric arc device for minimizing electrode ablation and heating gases to supersonic or hypersonic wind tunnel temperatures
[NASA-CASE-IAC-00319] c25 N70-41628
- GAS HEATING**
- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c35 N74-15126
- GAS INJECTION**
- Pressurized gas injection for burning rate control of solid propellants
[NASA-CASE-XLE-03494] c27 N71-21819
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c35 N75-26334
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c43 N78-14452
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c07 N78-25089
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c45 N80-14579
- GAS IONIZATION**
- Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
- Multichannel photoionization chamber for measuring absorption, photoionization yield, and coefficients of gases
[NASA-CASE-ERC-10044-1] c14 N71-27090
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c35 N76-18403
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-NFS-22597] c36 N78-17366
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N78-27402
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c72 N80-33186
- GAS LASERS**
- Gas laser frequency stabilized by position of mirrors in resonant cavity
[NASA-CASE-XGS-03644] c16 N71-18614
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c36 N75-32441
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-NFS-22597] c36 N78-17366
- Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c36 N78-27402
- GAS LUBRICANTS**
- High temperature gas lubricant consisting of two fluoro-bromo-methanes
[NASA-CASE-XLE-00353] c18 N70-39897
- Thrust bearing
[NASA-CASE-LEW-11949-1] c37 N76-29588
- Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c37 N79-10418
- GAS MASERS**
- Solid state chemical source for ammonia beam masers
[NASA-CASE-XGS-01504] c16 N70-41578
- Atomic hydrogen maser with bulb temperature control by output frequency difference signal for wall shift elimination
[NASA-CASE-HQN-10654-1] c16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c35 N76-15436
- GAS MIXTURES**
- Gas analyzer for bi-gaseous mixtures suitable for use in test facilities
[NASA-CASE-XLA-01131] c14 N71-10774
- Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741
- Separation cell with permeable membranes for fluid mixture component separation
[NASA-CASE-XMS-02952] c18 N71-20742
- Gas chromatographic method for analyzing hydrogen deuterium mixtures
[NASA-CASE-NPO-11322] c06 N72-25146
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c25 N79-28253
- GAS PIPES**
- Tabular flow restrictor for gas flow control in pipeline
[NASA-CASE-NPO-10117] c15 N71-15608
- GAS PRESSURE**
- Expulsion and measuring device for determining quantity of liquid in tank under conditions of weightlessness
[NASA-CASE-XMS-01546] c14 N70-40233
- Dynamic sensor for gas pressure or density measurement
[NASA-CASE-XAC-02877] c14 N70-41681
- Wide range dynamic pressure sensor with vibrating diaphragm for measuring density and pressure of gaseous environment
[NASA-CASE-ARC-10263-1] c14 N72-22438
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c35 N75-33368
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c33 N77-21316
- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c20 N80-18097
- GAS STREAMS**
- Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c35 N74-32878
- Process for removing sulfur dioxide from gas streams --- using iron as a catalyst
[NASA-CASE-MSC-16299-1] c45 N77-31668
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c07 N78-18067
- Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c45 N79-12584
- GAS TEMPERATURE**
- Device for simultaneously determining density, velocity, and temperature of streaming gas
[NASA-CASE-XLA-03375] c16 N71-24074
- GAS TRANSPORT**
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c31 N78-17238
- GAS TUBES**
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c37 N79-28550
- GAS TURBINE ENGINES**
- Variable-orifice hydraulic mechanism for aircraft gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c28 N73-19793
- Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LEW-11326-1] c23 N73-30665
- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c20 N76-14190
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229
- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c07 N77-14025
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c07 N77-23106
- Blade retainer assembly
[NASA-CASE-LEW-12608-1] c07 N77-27116
- Nickel base alloy --- for gas turbine engine stator vanes

- [NASA-CASE-LEW-12270-1] c26 N77-32280
 Bearing seat usable in a gas turbine engine
 [NASA-CASE-LEW-12477-1] c37 N77-32501
 Oil cooling system for a gas turbine engine
 [NASA-CASE-LEW-12321-1] c37 N78-10467
 Variable cycle gas turbine engines
 [NASA-CASE-LEW-12916-1] c37 N78-17384
 Integrated gas turbine engine-nacelle
 [NASA-CASE-LEW-12389-2] c07 N78-18066
 Variable mixer propulsion cycle
 [NASA-CASE-LEW-12917-1] c07 N78-18067
 Automotive gas turbine fuel control
 [NASA-CASE-LEW-12785-1] c37 N78-24545
 Gas turbine engine with recirculating bleed
 [NASA-CASE-LEW-12452-1] c07 N78-25089
 Power control for hot gas engines
 [NASA-CASE-NPO-14220-1] c37 N78-25430
 Independent power generator
 [NASA-CASE-LAR-11208-1] c44 N78-32539
 Redundant disc
 [NASA-CASE-LEW-12496-1] c07 N78-33101
 Integrated gas turbine engine-nacelle
 [NASA-CASE-LEW-12389-3] c07 N79-14096
 Variable area exhaust nozzle
 [NASA-CASE-LEW-12378-1] c07 N79-14097
 A silicon-slurry/aluminide coating --- protects
 aircraft and land-based gas turbine engines
 [NASA-CASE-LEW-13343-1] c24 N80-26389
- GAS TURBINES**
 Method for maintaining good performance in gas
 turbine during air flow distortion
 [NASA-CASE-LEW-10286-1] c28 N71-28915
 Gas turbine exhaust nozzle --- for noise reduction
 [NASA-CASE-LEW-11569-1] c07 N74-15453
 Gas turbine engine with convertible
 [NASA-CASE-LEW-12390-1] c07 N78-17056
 Counter pumping debris excluder and
 --- gas turbine shaft seals
 [NASA-CASE-LEW-11855-1] c07 N78-25090
 Direct heating surface combustor
 [NASA-CASE-LEW-11877-1] c34 N78-27357
 Apparatus and method for reducing thermal stress
 in a turbine rotor
 [NASA-CASE-LEW-12232-1] c07 N79-10057
 Method and turbine for extracting kinetic energy
 from a stream of two-phase fluid
 [NASA-CASE-NPO-14130-1] c34 N79-20335
 Corrosion resistant thermal barrier
 coating --- protecting gas turbines and other heat engine
 parts
 [NASA-CASE-LEW-13088-1] c24 N80-11142
- GAS VALVES**
 High-temperature, high-pressure spherical
 segment valve
 [NASA-CASE-IAC-00074] c15 N70-34817
 Shrink-fit vacuum system gas valve
 [NASA-CASE-XGS-00587] c15 N70-35087
 Gas valve operated by thermally expanding and
 contracting device
 [NASA-CASE-XLE-00815] c15 N70-35407
 Three-port transfer valve with one port open
 continuously suitable for manned space flight
 [NASA-CASE-IAC-01158] c15 N71-23051
- GAS WELDING**
 Emission spectroscopy method for contamination
 monitoring of inert gas metal arc welding
 [NASA-CASE-NMP-02039] c15 N71-15871
 Grain refinement control in TIG arc welding
 [NASA-CASE-MSC-19095-1] c37 N75-19683
- GAS-LIQUID INTERACTIONS**
 Fluid control apparatus and method
 [NASA-CASE-LAR-11110-1] c34 N75-26282
- GASDYNAMIC LASERS**
 Diatomic infrared gasdynamic laser --- for
 producing different wavelengths
 [NASA-CASE-ABC-10370-1] c36 N75-31426
- GASEOUS DIFFUSION**
 Gas purged dry box glove reducing permeation of
 air or moisture into dry box or isolator by
 diffusion through glove
 [NASA-CASE-XLE-02531] c05 N71-23080
 Gaseous core diffusion nuclear reactor for
 thermal energy generation
 [NASA-CASE-LEW-10250-1] c22 N71-28759
 Gas diffusion liquid storage bag and method of
 use for storing blood
 [NASA-CASE-NPO-13930-1] c52 N79-14749
- GASEOUS FISSION REACTORS**
 Gaseous core diffusion nuclear reactor for
 thermal energy generation
 [NASA-CASE-LEW-10250-1] c22 N71-28759
- GASEOUS ROCKET PROPELLANTS**
 Electrostatic ion engines using high velocity
 electrons to ionize propellant
 [NASA-CASE-XLE-00376] c28 N70-37245
 Detonation reaction engine comprising outer
 housing enclosing pair of inner walls for
 continuous flow
 [NASA-CASE-NMP-06926] c28 N71-22983
- GASES**
 Apparatus and process for volumetrically
 dispensing reagent quantities of volatile
 chemicals for small batch reactions
 [NASA-CASE-NPO-10070] c15 N71-27372
 High speed scanner for measuring mass of
 preselected gases at high sampling rate
 [NASA-CASE-LAR-10766-1] c14 N72-21432
 Observation window for internal gas confining
 chamber
 [NASA-CASE-NPO-10890] c11 N73-12265
 Device for detection of combustion light
 preceding gaseous explosions
 [NASA-CASE-LAR-10739-1] c14 N73-16484
 Low gravity phase separator
 [NASA-CASE-MSC-14773-1] c35 N78-12390
 Water separator
 [NASA-CASE-NMS-01295-1] c37 N79-21345
- GASKETS**
 Leakproof soft metal seal for use in very high
 vacuum systems operating at cryogenic
 temperatures
 [NASA-CASE-XGS-02441] c15 N70-41629
 Reinforced polyquinoxaline gasket and method of
 preparing the same --- resistant to ionizing
 radiation and liquid hydrogen temperatures
 [NASA-CASE-NPS-21364-1] c37 N74-18126
- GATES (CIRCUITS)**
 Flux gate magnetometer with toroidal gating coil
 and solenoidal output coil for signal
 modulation or amplification
 [NASA-CASE-XGS-01881] c09 N70-40123
 Silicon controlled rectifier pulse gate
 amplifier for blocking false gating caused by
 negative transient voltages
 [NASA-CASE-XLA-07497] c09 N71-12514
 Logic AND gate for fluid circuits
 [NASA-CASE-XLA-07391] c12 N71-17579
 Synchronous counter design incorporating
 cascaded binary stages driven by previous
 stages and inputs through NAND gates
 [NASA-CASE-XGS-02440] c08 N71-19432
 Switching series regulator with gating control
 network
 [NASA-CASE-NMS-09352] c09 N71-23316
 Memory device for two-dimensional radiant energy
 array computers
 [NASA-CASE-GSC-11839-2] c60 N78-10709
 Transformer regulated self-stabilizing chopper
 [NASA-CASE-XGS-09186] c33 N78-17295
- GATES (OPENINGS)**
 Longitudinal film gate and lock mechanism for
 securing film in motion picture cameras under
 vibration and high acceleration loads
 [NASA-CASE-LAR-10686] c14 N71-28935
- GAW-1 AIRFOIL**
 Airfoil shape for flight at subsonic speeds ---
 design analysis and aerodynamic
 characteristics of the GAW-1 airfoil
 [NASA-CASE-LAR-10585-1] c02 N76-22154
- GEAR TEETH**
 Wobble gear drive mechanism --- for aerospace
 environments
 [NASA-CASE-WOO-00625] c37 N78-17385
 Belt for transmitting power from a cogged
 driving member to a cogged driven member
 [NASA-CASE-GSC-12289-1] c37 N80-32717
- GEARS**
 Precision stepping drive device using cam disk
 [NASA-CASE-NPS-14772] c15 N71-17692
 Gearing system for eliminating backlash and
 filtering input torque fluctuations from high
 inertia load
 [NASA-CASE-XGS-04227] c15 N71-21744
 Self lubricating gears and other mechanical
 parts having surface adapted to frictional
 contact
 [NASA-CASE-NPS-14971] c15 N71-24984

- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c37 N74-27901
- Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c37 N78-25430
- Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c37 N79-20377
- GELLED ROCKET PROPELLANTS**
- Method and apparatus for producing fine particles in cryogenic liquid bath for gelled rocket propellants
[NASA-CASE-NPO-10250] c23 N71-16212
- GELS**
- Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-INP-00920] c15 N71-15906
- GENERATORS**
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MPS-21424-1] c34 N74-27730
- GEOLOGICAL SURVEYS**
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c46 N80-10709
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c46 N80-24906
- GERMANIUM**
- Germanium coated microbridge and method
[NASA-CASE-MPS-23274-1] c33 N78-13320
- GIMBALS**
- Gimbaled partially submerged nozzle for solid propellant rocket engines for providing directional control
[NASA-CASE-INP-01544] c28 N70-34162
- Inertial gimbale alignment system for spacecraft guidance
[NASA-CASE-INP-01669] c21 N71-23289
- Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimbaled package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
- Hermetically sealed vibration damper design for use in gimbale assembly of spacecraft inertial guidance system
[NASA-CASE-MSC-10959] c15 N71-26243
- Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MPS-23551-1] c04 N76-26175
- Autonomous navigation system --- using gyroscopic pendulums and gimbals for air navigation system which disposes
[NASA-CASE-ARC-11257-1] c04 N79-33177
- GLANDS (SEALS)**
- Development of mating flat surfaces to inhibit leakage of fluid around shafts
[NASA-CASE-XLE-10326-2] c15 N72-29488
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c37 N80-18401
- GLASS**
- Fabricating solar cells with dielectric layers to improve glass fusion
[NASA-CASE-IGS-04531] c03 N69-24267
- Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
- Metal pattern bonding technique for cover glass attachment to silicon solar cells for space applications
[NASA-CASE-XLE-08569] c03 N71-23449
- Apparatus for applying thin glass slides to solar cells
[NASA-CASE-NPO-10575] c03 N72-25019
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c37 N74-21063
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c44 N76-14600
- Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c74 N77-10899
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c37 N77-23482
- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c27 N78-32260
- Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c35 N80-20565
- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c37 N80-29705
- GLASS COATINGS**
- Method of attaching cover glass to silicon solar cell without using adhesive
[NASA-CASE-XLE-08569-2] c03 N71-24681
- Helium outgassing process for fused glass coating on ion accelerator grid
[NASA-CASE-LEW-10278-1] c15 N71-28582
- Development of process for constructing protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c74 N78-15879
- GLASS ELECTRODES**
- Liquid junction for glass electrode or pH meters
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[NASA-CASE-NPO-10331] c09 N71-26701
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[NASA-CASE-LAR-10000] c14 N73-30394
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[NASA-CASE-NFS-22906-1] c75 N78-27913

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[NASA-CASE-XLE-03778] c09 N69-21542
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[NASA-CASE-XNP-00738] c09 N70-38201
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[NASA-CASE-XNP-06937] c09 N71-19516
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[NASA-CASE-XGS-08729] c28 N71-14044
- HYDROGEN PEROXIDE**
- Unit for generating thrust from catalytic decomposition of hydrogen peroxide, for high altitude aircraft or spacecraft reaction control
[NASA-CASE-XMS-00583] c28 N70-38504
- HYDROGEN PRODUCTION**
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c28 N80-10374

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- Potential heat exchange fluids for use in sulfuric acid vaporizers
[NASA-CASE-NPO-15015-1] c25 N80-23394
- HYDROGENATION**
Producing high purity silicon carbide on carbon base by hydrogen reduction of silicon tetrachloride
[NASA-CASE-XLA-00158] c26 N70-36805
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c35 N74-15127
- HYDROLOGY**
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c43 N80-18498
- HYDROSTATIC PRESSURE**
Hydrostatic extrusion of refractory materials using single press
[NASA-CASE-NPO-10811] c15 N71-34425
- HYDROSTATICS**
Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c37 N77-28486
- HYDROXIDES**
Method for determining presence and type of OH in MgO
[NASA-CASE-NPO-10774] c06 N72-17095
- HYGROMETERS**
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[NASA-CASE-NPO-13948-1] c35 N78-25391
- HYGROSCOPICITY**
Method of evaluating moisture barrier properties of materials used in electronics encapsulation
[NASA-CASE-NPO-10051] c18 N71-24934
- HYPERFINE STRUCTURE**
Process for producing dispersion strengthened nickel with aluminum comprising metallic matrices embedded with oxides or other hyperfine compounds
[NASA-CASE-XLE-06969] c17 N71-24142
- HYPERGOLIC ROCKET PROPELLANTS**
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992
Method for igniting solid propellant rocket motors by injecting hypergolic fluids
[NASA-CASE-XLE-01988] c27 N71-15634
- HYPERSONIC AIRCRAFT**
Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XNP-02263] c05 N74-10907
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[NASA-CASE-LAR-12406-1] c05 N79-24980
- HYPERSONIC FLIGHT**
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[NASA-CASE-LAR-12264-1] c15 N78-32168
- HYPERSONIC FLOW**
Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XLA-05378] c11 N71-21475
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Leading edge design for hypersonic reentry vehicles
[NASA-CASE-XLA-00165] c31 N70-33242
Aerospace vehicle with variable planform for hypersonic and subsonic flight
[NASA-CASE-XLA-00805] c31 N70-38010
Variable geometry manned orbital vehicle having high aerodynamic efficiency over wide speed range and incorporating auxiliary pivotal wings
[NASA-CASE-XLA-03691] c31 N71-15674
Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088
Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c12 N73-25262
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c12 N73-28144
- HYPERSONIC VEHICLES**
Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
- HYPERVELOCITY GUNS**
Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-IGS-06628] c24 N71-16213
Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578
Collapsible piston for hypervelocity gun
[NASA-CASE-MSC-13789-1] c11 N73-32152
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c09 N79-21084
- HYPERVELOCITY IMPACT**
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c91 N74-13130
- HYPERVELOCITY PROJECTILES**
Impact measuring technique for determining size of hypervelocity projectiles
[NASA-CASE-LAR-10913] c14 N72-16282
Multiple image storing system for obtaining holographic record on film of high speed projectile
[NASA-CASE-MFS-20596] c14 N72-17324
- HYPERVELOCITY WIND TUNNELS**
Hypersonic test facility for studying ablation in models under high pressure and high temperature
[NASA-CASE-XLA-00378] c11 N71-15925
Design of hypersonic test facility for ablation tests and performance tests of vehicles under conditions of high temperature and pressure
[NASA-CASE-XLA-05378] c11 N71-21475
- HYSTERESIS**
Belleville spring assembly with elastic guides having low hysteresis
[NASA-CASE-XNP-09452] c15 N69-27504
- IGNITERS**
Characteristics of solid propellant rocket engine with controlled rate of thrust buildup operating in vacuum environment
[NASA-CASE-NPO-11559] c28 N73-24784
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c25 N74-33378
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c20 N78-24275
Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c37 N79-11405
- IGNITION**
Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184
- IGNITION LIMITS**
High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
- IGNITION SYSTEMS**
Solid propellant ignition with hypergolic fluid injected to predetermined portions of propellant
[NASA-CASE-XLE-00207] c28 N70-33375
Ignition system for monopropellant combustion devices
[NASA-CASE-XNP-00249] c28 N70-38249
Igniter capsule for chemical ignition of liquid rocket propellants
[NASA-CASE-XLE-00323] c28 N70-38505
Catalyst bed ignition system for hydrazine propellants
[NASA-CASE-XNP-00876] c28 N70-41311
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c33 N77-28385
Internal combustion engine with electrostatic discharging fuels
[NASA-CASE-NPO-13798-2] c37 N80-18397
- IGNITION TEMPERATURE**
Test chamber for determining decomposition and

autoignition of materials used in spacecraft under controlled environmental conditions
[NASA-CASE-KSC-10198] c11 N71-28629

ILLUMINATORS

Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XMP-03844-1] c14 N71-26474

Illumination system design for use as sunlight simulator in space environment simulators with multiple light sources reflected to single virtual source
[NASA-CASE-HQN-10781] c23 N71-30292

IMAGE CONTRAST

Video signal enhancement of signal component representing brightness of scene element in low contrast
[NASA-CASE-NPO-10343] c07 N71-27341

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932

IMAGE CONVERTERS

Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118

Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c36 N75-19652

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c33 N76-27473

Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c35 N79-33449

Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c33 N80-28635

IMAGE CORRELATORS

Multiple pattern holographic information storage and readout system
[NASA-CASE-ERC-10151] c16 N71-29131

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c35 N75-15014

Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c32 N79-14268

IMAGE DISSECTOR TUBES

Apparatus for calibrating an image dissector tube
[NASA-CASE-MPS-22208-1] c33 N75-26244

Electronic optical transfer function analyzer
[NASA-CASE-MPS-21672-1] c74 N76-19935

IMAGE ENHANCEMENT

Electron beam scanning system for improved image definition and reduced power requirements for video signal transmission
[NASA-CASE-ERC-10552] c09 N71-12539

Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c74 N75-25706

Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MPS-23461-1] c35 N79-10389

IMAGE FILTERS

Filter arrangement for controlling light intensity in motion picture camera used in optical pyrometry
[NASA-CASE-XLA-00062] c14 N70-33254

Development and characteristics of spectroradiometer with wedge filters to eliminate adverse effect of pinholes in filters
[NASA-CASE-HQN-10683] c14 N71-34389

Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c74 N75-25706

IMAGE INTENSIFIERS

Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c74 N78-18905

Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MPS-23461-1] c35 N79-10389

IMAGE PROCESSING

Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c32 N79-14268

IMAGE RESOLUTION

An image readout device with electrically variable spatial resolution
[NASA-CASE-LAR-12633-1] c35 N80-22661

IMAGE TUBES

Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c33 N74-21850

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c74 N77-18893

IMAGES

Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XMP-03844-1] c14 N71-26474

Stereoscopic television system, including projecting pair of binocular images
[NASA-CASE-ARC-10160-1] c23 N72-27728

System for forming a quadrifid image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c35 N78-22348

IMAGING TECHNIQUES

Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868

Noise elimination in coherent imaging system by axial rotation of optical lens for spectral distribution of degrading affects
[NASA-CASE-GSC-11133-1] c23 N72-11568

Phototransistor imaging system with mosaic of phototransistors on semiconductor substrate
[NASA-CASE-MPS-20809] c23 N73-13660

Computerized optical system for producing multiple images of a scene simultaneously
[NASA-CASE-MSC-12404-1] c23 N73-13661

Optical imaging system for increasing light absorption efficiency of imaging detector
[NASA-CASE-ARC-10194-1] c23 N73-20741

Device for displaying and recording angled views of samples to be viewed by microscope
[NASA-CASE-GSC-11690-1] c14 N73-28499

Ritchey-Chretien telescope responsive to images located off telescope optical axis
[NASA-CASE-GSC-11487-1] c14 N73-30393

Data storage, image tube type
[NASA-CASE-MSC-14053-1] c60 N74-12888

Optical instruments
[NASA-CASE-MSC-14096-1] c74 N74-15095

Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c35 N77-14408

Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c74 N77-28932

Pull color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c09 N78-18083

Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c33 N79-13262

Chromatically corrected virtual image display --- lens design for flight simulators
[NASA-CASE-LAR-12251-1] c74 N79-14892

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c43 N79-17288

System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c74 N79-20856

Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c74 N79-20857

Wide angle optical systems --- multispectral scanner
[NASA-CASE-MSC-18373-1] c74 N80-11892

Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c74 N80-21140

Low intensity X-ray and gamma-ray imaging spectrometer
[NASA-CASE-GSC-12587-1] c35 N80-29635

Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c74 N80-33210

IMIDES

Synthesis and chemical properties of imidazopyrrolone/imide copolymers
[NASA-CASE-XLA-08802] c06 N71-11238

Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c31 N74-13177

Curing agent for polyepoxides and epoxy resins and composites cured therewith
[NASA-CASE-LBW-13226-1] c23 N79-31345

IMINES

Synthesis of polymeric schiff bases by schiff-base exchange reactions
[NASA-CASE-XMP-08651] c06 N71-11236

Direct synthesis of polymeric schiff bases from two amines and two aldehydes
[NASA-CASE-XMP-08655] c06 N71-11239

IMMOBILIZATION

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Synthesis of schiff bases for heat shields by acetal amine reactions
[NASA-CASE-XNP-08652] c06 N71-11243

Synthesis of aromatic diamines and dialdehyde polymers using Schiff base
[NASA-CASE-XNP-03074] c06 N71-24740

IMMOBILIZATION

Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-XNP-06589] c05 N71-23159

Absolute focus locking device for microscopes to maintain set focus for extended time period
[NASA-CASE-LAR-10184] c14 N72-22445

IMPACT

Shock absorber for use as protective barrier in impact energy absorbing system
[NASA-CASE-NPO-10671] c15 N72-20443

System for detecting impact position of cosmic dust on detector surface
[NASA-CASE-GSC-11291-1] c25 N72-33696

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c35 N75-27331

IMPACT ACCELERATION

Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146

IMPACT DAMAGE

Measuring micrometeoroid depth of penetration into various materials
[NASA-CASE-XLA-00941] c14 N71-23240

IMPACT LOADS

Piezoelectric transducer for detecting and measuring micrometeoroids
[NASA-CASE-XAC-01101] c14 N70-41957

Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225

IMPACT RESISTANCE

Electric storage battery with high impact resistance
[NASA-CASE-NPO-11021] c03 N72-20032

Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c24 N77-27188

IMPACT STRENGTH

High impact pressure regulator having minimum number of lightweight movable elements
[NASA-CASE-NPO-10175] c14 N71-18625

IMPACT TESTING MACHINES

Development and characteristics of penetrometer for measuring physical properties of lunar surface
[NASA-CASE-XLA-00934] c14 N71-22765

Impact testing machine for imparting large impact forces on high velocity packages
[NASA-CASE-XNP-04817] c14 N71-23225

IMPACT TOLERANCES

High impact antennas with high radiating efficiency
[NASA-CASE-NPO-10231] c07 N71-26101

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c37 N79-10420

IMPEDANCE MATCHING

Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 N69-24334

Reflectometer for receiver input impedance match measurement
[NASA-CASE-XNP-10843] c07 N71-11267

Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range
[NASA-CASE-XGS-01418] c09 N71-23573

Pattern and impedance matching improvements in transversely polarized triaxial antenna
[NASA-CASE-XGS-02290] c07 N71-28809

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c36 N79-21336

IMPEDANCE MEASUREMENTS

Development of electrical system for measuring high impedance
[NASA-CASE-XNS-08589-1] c09 N71-20569

Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c33 N80-32650

IMPLANTATION

Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASE-XAC-05706] c05 N71-12342

Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772

IMPLANTED ELECTRODES (BIOLOGY)

Improved subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c52 N79-15576

An implantable electrical device
[NASA-CASE-GSC-12560-1] c52 N80-27073

Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c52 N80-33081

IMPLOSIONS

Implosion driven, light gas, hypervelocity gun
[NASA-CASE-XAC-05902] c11 N71-18578

IMPREGNATING

Composite lamination method
[NASA-CASE-LAR-12019-1] c24 N78-17150

IMPULSE GENERATORS

Percutaneous connector device
[NASA-CASE-KSC-10849-1] c52 N77-14738

IMPURITIES

Fabrication of sintered impurity semiconductor brushes for electrical energy transfer
[NASA-CASE-XNP-01016] c26 N71-17818

Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c44 N80-24741

IN-FLIGHT MONITORING

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-PRC-11024-1] c02 N80-28300

INCIDENCE

Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c74 N78-15880

INCIDENT RADIATION

Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c44 N77-19571

INCLINATION

Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c05 N77-17029

INCOHERENT SCATTERING

Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c33 N74-20859

INDICATING INSTRUMENTS

Piezoelectric means for missile stage separation indication and stage initiation
[NASA-CASE-XLA-00791] c03 N70-39930

Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500

Apparatus for determining quality of bond between high density material and low density material
[NASA-CASE-MFS-13686] c15 N71-18132

Device for detecting hydrogen fires onboard high altitude rockets
[NASA-CASE-MFS-13130] c10 N72-17173

Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c39 N79-22537

INDIUM ALLOYS

Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c26 N77-29260

Solar cell collector
[NASA-CASE-LEW-12552-1] c44 N78-25527

INDOLES

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c52 N79-14755

INDUCTANCE

Current dependent variable inductance for input filter chokes of ac or dc power supplies
[NASA-CASE-ERC-10139] c09 N72-17154

Inductance device with vacuum insulation and materials of low gas entrapping capability
[NASA-CASE-LEW-10330-1] c09 N72-27226

Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c35 N77-32455

INDUCTION HEATING

Induction heating of metallurgical specimens to high temperatures in coil furnace
[NASA-CASE-XLE-04026] c14 N71-23267

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INFRARED INSTRUMENTS

Induction heating gun
[NASA-CASE-LAR-12540-1] c37 N80-11468
One step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c37 N80-11469

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Voltage controlled oscillator circuit for
two-phase induction motor control
[NASA-CASE-MFS-21465-1] c10 N73-32145
Variable frequency inverter for ac induction
motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c33 N75-15874
Power factor control system for AC induction
motors
[NASA-CASE-MFS-23280-1] c33 N78-10376
Improved power factor control system for ac
induction motors
[NASA-CASE-MFS-23988-1] c33 N79-25315
Magnetic field control --- electromechanical
torquing devices
[NASA-CASE-MFS-23828-1] c33 N80-17359

INDUCTORS

Inductive liquid level detection system
[NASA-CASE-XLE-01609] c14 N71-10500
Describing apparatus used in vacuum deposition
of thin film inductive windings for spacecraft
microcircuitry
[NASA-CASE-XMF-01667] c15 N71-17647
Double-induction variable speed system for
constant-frequency electrical power generation
[NASA-CASE-ERC-10065] c09 N71-27364

INDUSTRIAL PLANTS

Simplified technique and device for producing
industrial grade synthetic diamonds
[NASA-CASE-MFS-20698-2] c15 N73-19457

INDUSTRIAL WASTES

Process of forming catalytic surfaces for wet
oxidation reactions
[NASA-CASE-MSC-14831-1] c25 N78-10225
Process for purification of waste water produced
by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c85 N79-17747

INERTIA

Gearing system for eliminating backlash and
filtering input torque fluctuations from high
inertia load
[NASA-CASE-XGS-04227] c15 N71-21744

INERTIAL GUIDANCE

Hermetically sealed vibration damper design for
use in gimbal assembly of spacecraft inertial
guidance system
[NASA-CASE-MSC-10959] c15 N71-26243

INERTIAL NAVIGATION

Autonomous navigation system --- using
gyroscopic pendulums and gimbals for air
navigation system which disposes
[NASA-CASE-ARC-11257-1] c04 N79-33177

INERTIAL PLATFORMS

Inertial component clamping assembly design for
spacecraft guidance and control system mounting
[NASA-CASE-XMS-02184] c15 N71-20813
Inertial gimbal alignment system for spacecraft
guidance
[NASA-CASE-XMF-01669] c21 N71-23289
Temperature compensated digital inertial sensor
--- circuit for maintaining inertial element
of gyroscope or accelerometer at constant
position
[NASA-CASE-NPO-13044-1] c35 N74-15094
Attitude control system
[NASA-CASE-MFS-22787-1] c15 N77-10113
Rim inertial measuring system --- to measure
angular rates and linear accelerations
[NASA-CASE-LAR-12052-1] c04 N80-18019

INERTIAL REFERENCE SYSTEMS

Development of attitude control system for
spacecraft orientation
[NASA-CASE-XGS-04393] c21 N71-14159
Large amplitude, linear inertial reference
system of vibrating string type for spacecraft
reference plane
[NASA-CASE-XAC-03107] c23 N71-16098

INFLATABLE SPACECRAFT

Passive thermal control coating on aluminum foil
laminates for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617
Erectable, inflatable, radio signal reflecting
passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309

Rotating, multisided mandrel for fabricating
gored inflatable spacecraft
[NASA-CASE-XLA-04143] c15 N71-17687
Forming inflatable panels erectable in space for
passive communication satellite
[NASA-CASE-XLA-03497] c15 N71-23052
Development and characteristics of inflatable
structure to provide escape from orbit for
spacecrews under emergency conditions
[NASA-CASE-XMS-06162] c31 N71-28851

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Aeroflexible wing structure with air scoop for
inflating stiffeners with ram air
[NASA-CASE-XLA-06095] c01 N69-39981
Design of inflatable life raft for aircrafts and
boats
[NASA-CASE-XMS-00863] c05 N70-34857
Lightweight life preserver without fastening
devices
[NASA-CASE-XMS-00864] c05 N70-36493
Inflatable honeycomb panel element for
lightweight structures usable in space
stations and other construction
[NASA-CASE-XLA-00204] c32 N70-36536
Inflatable radar reflector unit - lightweight,
highly reflective to electromagnetic
radiation, and adaptable for erection and
deployment with minimum effort and time
[NASA-CASE-XMS-00893] c07 N70-40063
Temperature sensor warning system for pneumatic
tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Inflation system for balloon type satellites
[NASA-CASE-XGS-03351] c31 N71-16081
Development and characteristics of protective
coatings for spacecraft
[NASA-CASE-XMF-02507] c31 N71-17679
Development and characteristics of self
supporting space vehicle
[NASA-CASE-XLA-00117] c31 N71-17680
Conforming polisher for aspheric surfaces of
revolution with inflatable tube
[NASA-CASE-XGS-02884] c15 N71-22705
Technique for making foldable, inflatable,
plastic honeycomb core panels for use in
building and bridge structures, light and
radio wave reflectors, and spacecraft
[NASA-CASE-XLA-03492] c15 N71-22713
Collapsible antenna boom and coaxial
transmission line having inflatable inner tube
[NASA-CASE-MFS-20068] c07 N71-27191
Space expandable tether device for use as
passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936
Inflatable rocket engine nozzle skirt with
transpiration cooling
[NASA-CASE-MFS-20619] c28 N72-11708
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INTEGRATED CIRCUITS

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[NASA-CASE-NPO-13872-1] c33 N78-10377
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[NASA-CASE-XLE-07087] c06 N69-39889
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[NASA-CASE-XLE-00168] c11 N70-33278
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[NASA-CASE-LEW-10814-1] c28 N70-35422
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[NASA-CASE-XLE-00342] c28 N70-37980
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[NASA-CASE-XLE-00702] c14 N70-40203
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[NASA-CASE-XLE-00519] c28 N70-41576
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[NASA-CASE-INP-02839] c28 N70-41922
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[NASA-CASE-XLE-01124] c28 N71-14043
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[NASA-CASE-XLE-02066] c28 N71-15661
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[NASA-CASE-XNP-01954] c28 N71-28850
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[NASA-CASE-NPO-10737] c28 N72-11709
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[NASA-CASE-NPO-11880] c28 N73-24783
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[NASA-CASE-XNP-04264] c03 N69-21337
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[NASA-CASE-XMS-02063] c03 N71-29044
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[NASA-CASE-LEW-10689-1] c28 N71-26173
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[NASA-CASE-XLE-00787] c14 N71-21090
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radiant intensity from far ultraviolet and
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[NASA-CASE-XLA-00087] c02 N70-33332
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[NASA-CASE-LAR-10951-1] c28 N73-19819
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[NASA-CASE-LAR-11087-1] c02 N73-26008
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[NASA-CASE-LAR-11141-1] c07 N74-32418
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[NASA-CASE-XNP-02278] c15 N71-28951
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[NASA-CASE-ARC-10364-2] c33 N75-25041
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[NASA-CASE-NPO-10189-1] c33 N77-21314
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[NASA-CASE-IGS-05003] c09 N69-24318
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[NASA-CASE-NPO-10070] c15 N71-27372
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- Device for handling heavy loads by distributing forces
[NASA-CASE-IMP-04969] c11 N69-27466
- Two plane balance for simultaneous measurements of multiple forces
[NASA-CASE-XAC-00073] c14 N70-34813
- Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLB-02999] c15 N71-16052
- Development of device for transferring load from load cell to bypass mechanism
[NASA-CASE-XMS-06329-1] c15 N71-20441
- Valve assembly for controlling simultaneously more than one fluid flow, and having stable qualities under loads
[NASA-CASE-XMS-05890] c09 N71-23191
- Solid state force measuring electromechanical transducers made of piezoresistive materials
[NASA-CASE-ERC-10088] c26 N71-25490
- Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531
- Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
- Force balanced throttle valve for fuel control in rocket engines
[NASA-CASE-NPO-10808] c15 N71-27432
- Energy absorption device in high precision gear train for protection against damage to components caused by stop loads
[NASA-CASE-IMP-01848] c15 N71-28959
- Air bearing for use in exterior environment for moving heavy loads
[NASA-CASE-WLP-10002] c15 N72-17451
- Measuring device for bearing preload using spring washers
[NASA-CASE-MPS-20434] c11 N72-25288
- Variable direction force coupler for transmitting force along selectable curve path
[NASA-CASE-MPS-20317] c15 N73-13463
- Versatile ergometer with work load control
[NASA-CASE-MPS-21109-1] c05 N73-27941
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c35 N74-13129
- G-load measuring and indicator apparatus --- for aircraft
[NASA-CASE-ARC-10806] c06 N74-27872
- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c35 N77-18417
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c35 N77-27367
- Load regulating latch
[NASA-CASE-MSC-19535-1] c37 N77-32499
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- System for locating lightning strokes by coordination of directional antenna signals
[NASA-CASE-KSC-10729-1] c09 N73-32110
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c17 N76-21250
- LOCKING**
- Releasable coupling device designed to receive and retain matching ends of electrical connectors
[NASA-CASE-XMS-07846-1] c09 N69-21927
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[NASA-CASE-IMP-01371] c15 N70-41829
- Low friction bearing and lock mechanism for two-axis gimbal carrying satellite payload
[NASA-CASE-GSC-10556-1] c31 N71-26537
- Locking device for retaining turbine rotor blades on turbine wheel
[NASA-CASE-IMP-00816] c28 N71-28928
- Longitudinal film gate and lock mechanism for securing film in motion picture cameras under vibration and high acceleration loads
[NASA-CASE-LAR-10686] c14 N71-28935
- Design of quick release locking pin for joining two or more load-carrying structural members
[NASA-CASE-MPS-18495] c15 N72-11385
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c54 N76-22914
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c52 N77-27694
- Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c33 N79-13261
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c35 N80-19468
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- Jet shoes for space locomotion
[NASA-CASE-XLA-08491] c05 N69-21380
- Attitude control training device for astronauts permitting friction-free movement with five degrees of freedom
[NASA-CASE-XMS-02977] c11 N71-10746
- Restraint torso for increased mobility and reduced physiological effects while wearing pressurized suits
[NASA-CASE-MSC-12397-1] c05 N72-25119
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- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c33 N78-32339
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- Technique for deriving logarithm of input signal using exponentially varying electric signal inversely
[NASA-CASE-ERC-10267] c09 N72-23173
- LOGIC CIRCUITS**
- Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148
- Counter-divider circuit for accuracy and reliability in binary circuits
[NASA-CASE-IMP-00421] c09 N70-34502
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[NASA-CASE-IMP-00432] c08 N70-35423
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[NASA-CASE-INP-05415] c08 N71-12505
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[NASA-CASE-IGS-00823] c10 N71-15910
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[NASA-CASE-XLA-07391] c12 N71-17579
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[NASA-CASE-IGS-04766] c08 N71-18602
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[NASA-CASE-XLA-07732] c08 N71-18751
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[NASA-CASE-GSC-10366-1] c10 N71-18772
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[NASA-CASE-NPO-10150] c08 N71-24650
- Binary to decimal decoder logic circuit design with feedback control and display device
[NASA-CASE-IXS-06167] c08 N71-24890
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[NASA-CASE-INP-08567] c09 N71-26000
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[NASA-CASE-INP-04623] c10 N71-26103
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[NASA-CASE-ERC-10180-1] c60 N74-20836
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[NASA-CASE-GSC-12111-2] c60 N77-31800
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[NASA-CASE-NPO-11569] c10 N73-26229
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[NASA-CASE-NPO-13490-1] c36 N76-31512
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[NASA-CASE-IGS-10010] c03 H72-15986
- Low thrust monopropellant engine --- low
temperature environments
[NASA-CASE-GSC-12194-2] c20 H79-15151
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[NASA-CASE-IAC-00060] c09 H70-39915
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[NASA-CASE-HSC-12101] c09 H71-18720
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[NASA-CASE-ILE-01765] c18 H71-10772
- Metallic film diffusion for boundary lubrication
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[NASA-CASE-ILE-10337] c15 H71-24046
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[NASA-CASE-GSC-12636-1] c37 H80-29705
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shaft to retain lubricating oils around shaft
[NASA-CASE-ILE-05130-2] c15 H71-19570
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[NASA-CASE-LEW-11026-1] c15 H73-33383
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leather wiper
[NASA-CASE-KSC-10723-1] c37 H75-13265
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[NASA-CASE-IHP-01641] c15 H71-22997
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from oil reservoir of porous material
[NASA-CASE-IHP-03972] c15 H71-23048
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[NASA-CASE-LEW-11076-2] c37 H74-32921
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[NASA-CASE-IHS-12158-1] c31 H69-27499
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improved transmission of radiation
[NASA-CASE-ARC-10030] c09 H71-12521
- Lamp modulator for generating visual indication
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[NASA-CASE-KSC-10565] c09 H72-25250
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[NASA-CASE-HFS-21214-1] c09 H73-30181
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[NASA-CASE-HPO-11429-1] c74 H77-21941
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streak camera
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[NASA-CASE-ILA-00062] c14 H70-33254
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which minimizes effects of outside interference
[NASA-CASE-IHP-06510] c14 H71-23797
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[NASA-CASE-IHP-04167-3] c36 H77-19416
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[NASA-CASE-LEW-11549-1] c44 H77-19571
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[NASA-CASE-HPO-11510-1] c33 H77-21315
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[NASA-CASE-IHQ-03673] c33 H71-29046
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[NASA-CASE-IHS-07168] c07 H71-11300
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[NASA-CASE-HFS-21042] c07 H72-25171
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for measuring physical properties of lunar
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[NASA-CASE-ILA-00934] c14 H71-22765
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for lunar exploration and convertible to
rescue vehicle
[NASA-CASE-LAR-10056] c05 H71-12351
- Development and characteristics of pentrometer
for measuring physical properties of lunar
surface
[NASA-CASE-ILA-00934] c14 H71-22765
- Lightweight propulsion unit for movement of
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[NASA-CASE-HFS-20130] c28 H71-27585
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[NASA-CASE-HFS-21042] c07 H72-25171
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perform on simulated lunar surface under
conditions of lunar gravity
[NASA-CASE-IHS-04798] c11 H71-21474
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vehicular response to landing
[NASA-CASE-ILA-00493] c11 H70-34786
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Lunar landing flight research vehicle
[NASA-CASE-IHP-00929] c31 H70-34966
- LUNAR LOGISTICS**
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personnel and equipment across lunar surface
[NASA-CASE-HFS-20130] c28 H71-27585
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[NASA-CASE-XNP-09770] c15 N71-20440
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[NASA-CASE-XNP-09770-3] c11 N71-27036
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[NASA-CASE-MFS-20774] c14 N73-19420
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[NASA-CASE-MSC-12408-1] c46 N74-13011
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- Resilient vehicle wheel for lunar surface travel
[NASA-CASE-MFS-20400] c31 N71-18611
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[NASA-CASE-MFS-13929] c15 N71-27091

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- Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329

M

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- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c09 N80-22369

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- Rotary impact-type rock drill for recovering rock cuttings
[NASA-CASE-XNP-07478] c14 N69-21923
- Description of protective device for providing safe operating conditions around work piece in machine or metal working tool
[NASA-CASE-XLE-01092] c15 N71-22797
- Description of device for aligning stacked sheets of paper for repetitive cutting
[NASA-CASE-XMS-04178] c15 N71-22798
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[NASA-CASE-XLE-06773] c15 N71-23817
- Design and development of layout tool for machine shop use to locate point in precise reference to straight or bowed reference edge
[NASA-CASE-FRC-10005] c15 N71-26145
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[NASA-CASE-XAC-09489-1] c15 N71-26673
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[NASA-CASE-GSC-10780-1] c14 N72-16283
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[NASA-CASE-NPO-13281-1] c37 N75-13266
- Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c37 N76-20480
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[NASA-CASE-LAR-11658-1] c37 N77-14478
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[NASA-CASE-GSC-12274-1] c37 N79-28550
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[NASA-CASE-GSC-12584-1] c76 N80-32246

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[NASA-CASE-XAC-06956] c15 N71-21177
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[NASA-CASE-NPO-13205-1] c31 N74-32917

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- Laser machining device with dielectric functioning as beam waveguide for mechanical and medical applications
[NASA-CASE-HQN-10541-2] c15 N71-27135
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[NASA-CASE-XLA-10470] c15 N72-21489
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[NASA-CASE-LAR-10953-1] c17 N73-27446
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[NASA-CASE-XLA-01262] c15 N71-21404
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[NASA-CASE-LAR-10953-1] c17 N73-27446
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[NASA-CASE-NPO-10774] c06 N72-17095
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- Improved alternator with windings of superconducting materials acting as permanent magnet
[NASA-CASE-XLE-02824] c03 N69-39890
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[NASA-CASE-MSC-11277] c09 N71-29008
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[NASA-CASE-NPO-14617-1] c33 N79-26311
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[NASA-CASE-XLE-01124] c28 N71-14043
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- Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043
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[NASA-CASE-XNP-00431] c09 N70-38998
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[NASA-CASE-XLA-00327] c25 N71-29184
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[NASA-CASE-GSC-11978-1] c37 N77-17464
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[NASA-CASE-XNP-01318] c10 N71-23033

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[NASA-CASE-ERC-10075] c09 N71-24800

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[NASA-CASE-NPO-10242] c09 N71-24803

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[NASA-CASE-ERC-10125] c09 N71-24893

Temperature sensitive magnetometer with pulsating thermally cycled magnetic core
[NASA-CASE-XAC-03740] c14 N71-26135

Digital magnetic core memory with sensing amplifier circuits
[NASA-CASE-XNP-01012] c08 N71-28925

Saturable magnetic core and signal detection for indicating impending saturation
[NASA-CASE-ERC-10089] c23 N72-17747

Commutator for steering precisely controlled bidirectional currents through numerous loads by use of magnetic core shift registers
[NASA-CASE-NPO-10743] c08 N72-21199

Banded transformer cores
[NASA-CASE-NPO-11966-1] c33 N74-17928

MAGNETIC DIPOLES
Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-IGS-01013] c14 N71-23725

MAGNETIC DISKS
Device for removing plastic dust cover from digital computer disk packs for inspection and cleaning
[NASA-CASE-LAR-10590-1] c15 N70-26819

MAGNETIC FIELD CONFIGURATIONS
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406

Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c74 N78-18905

MAGNETIC FIELDS
Magnetically diffused radial electric arc heater
[NASA-CASE-XLA-00330] c33 N70-34540

Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372

Venting device for liquid propellant storage tank using magnetic field to separate liquid and gaseous phases
[NASA-CASE-XLE-01449] c15 N70-41646

Ion engine with magnetic circuit for optimal discharge
[NASA-CASE-XLE-01124] c28 N71-14043

Development of wide range linear fluxgate magnetometer
[NASA-CASE-IGS-01587] c14 N71-15962

Magnetic element position sensing device, using misaligned electromagnets
[NASA-CASE-IGS-07514] c23 N71-16099

Development of non-magnetic indexing device for orienting magnetic flux sensing instrument in magnetic field without generation of detrimental magnetic fields
[NASA-CASE-IGS-02422] c15 N71-21529

Negation of magnetic fields produced by thin waferlike circuit elements in space vehicles
[NASA-CASE-IGS-03390] c03 N71-23187

Torquemeter for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-IGS-01013] c14 N71-23725

Fluxgate magnetometer for measuring magnetic field along two axes using one sensor
[NASA-CASE-GSC-10441-1] c14 N71-27325

Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers
[NASA-CASE-IGS-10518] c16 N71-28554

Magnetic method for detection of aircraft position relative to runway
[NASA-CASE-ARC-10179-1] c21 N72-22619

Radial magnetic field for ion thruster
[NASA-CASE-XLE-10770-1] c28 N72-22770

Automatic shunting of ion thruster magnetic field when thruster is not operating
[NASA-CASE-XLE-10835-1] c28 N72-22771

Apparatus for determining distance to lighting strokes from single station by magnetic and electric field sensing antennas
[NASA-CASE-KSC-10698] c07 N73-20175

Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710

Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-XLE-11617-1] c33 N74-10195

Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390

Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c33 N77-21315

Magnetic heat pumping
[NASA-CASE-XLE-12508-1] c34 N78-17335

Atomic hydrogen storage method and apparatus
[NASA-CASE-XLE-12081-3] c44 N79-18455

Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-XLE-12081-2] c28 N80-20402

MAGNETIC FILMS
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c76 N79-16678

MAGNETIC FLUX
Excitation and detection circuitry for flux responsive magnetic head
[NASA-CASE-XNP-04183] c09 N69-24329

Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423

Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123

Development of hybrid bearing lubrication system with combination of standard type lubrication and magnetic flux field for earth atmosphere and space environment operation
[NASA-CASE-XNP-01641] c15 N71-22997

Magnetic current regulator for saturable core transformer
[NASA-CASE-ERC-10075] c09 N71-24800

Magnetic flux pump for changing intensity of magnetic fields
[NASA-CASE-XNP-01187] c15 N73-28516

Method for increasing intensity of magnetic field by transferring flux
[NASA-CASE-XNP-01188] c15 N73-32361

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c37 N75-18574

A linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft's power supply
[NASA-CASE-GSC-12518-1] c33 N80-19424

MAGNETIC FORMING
Portable magnetomotive hammer for metal working
[NASA-CASE-XNP-03793] c15 N71-24833

Method and apparatus for portable high precision magnetomotive bulging, constricting, and joining of large diameter metal tubes
[NASA-CASE-XNP-05114-3] c15 N71-24865

MAGNETIC INDUCTION
Continuous operation, single phased, induction plasma accelerator producing supersonic speeds
[NASA-CASE-XLA-01354] c25 N70-36946

Automatic power supply circuit design for driving inductive loads and minimizing power consumption including solenoid example
[NASA-CASE-NPO-10716] c09 N71-24892

Double-induction variable speed system for constant-frequency electrical power generation
[NASA-CASE-ERC-10065] c09 N71-27364

Microwave generator using Gunn effect for magnetic tuning
[NASA-CASE-NPO-12106] c09 N73-15235

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c70 N74-21300

MAGNETIC LENSES

Quadrupole mass spectrometer using noise spectrum for ion separation and identification
[NASA-CASE-XNP-04231] c14 N73-32325

MAGNETIC MATERIALS

Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-XLE-01512] c12 N70-40124

MAGNETIC MEASUREMENT

Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Development of wide range linear fluxgate magnetometer
[NASA-CASE-XGS-01587] c14 N71-15962
Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390

MAGNETIC POLES

Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406

MAGNETIC PUMPING

Magnetic flux pump for changing intensity of magnetic fields
[NASA-CASE-XNP-01187] c15 N73-28516
Method for increasing intensity of magnetic field by transferring flux
[NASA-CASE-XNP-01188] c15 N73-32361
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c37 N74-27904
Magnetic heat pumping
[NASA-CASE-LEW-12508-2] c34 N77-32435

MAGNETIC RECORDING

Development of data storage system for storing digital data in high density format on magnetic tape
[NASA-CASE-XNP-02778] c08 N71-22710
Magnetic recording head composed of ferrite core coated with thin film of aluminum-iron-silicon alloy
[NASA-CASE-GSC-10097-1] c08 N71-27210
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c35 N79-16246
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c76 N79-16678

MAGNETIC SIGNALS

Plural recorder system which limits signal recording to signals of sufficient interest
[NASA-CASE-XMS-06949] c09 N69-21467

MAGNETIC STORAGE

Nondestructive interrogating and state changing circuit for binary magnetic storage elements
[NASA-CASE-XGS-00174] c08 N70-34743
Magnetic matrix memory system for nondestructive reading of information contained in matrix
[NASA-CASE-XNP-05835] c08 N71-12504
Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
Momentum wheel design for spacecraft attitude control and magnetic drum and head system for data storage
[NASA-CASE-NPO-11481] c21 N73-13644
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c28 N78-24365

MAGNETIC SUSPENSION

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c35 N79-26372

MAGNETIC SWITCHING

Power switch with transfluxor type magnetic core
[NASA-CASE-NPO-10242] c09 N71-24803

Design and development of multistage current steering switch with inductively coupled magnetic cores
[NASA-CASE-XNP-08567] c09 N71-26000
MAGNETIC TAPE TRANSPORTS
Reel safety brake
[NASA-CASE-GSC-11960-1] c37 N77-14479
MAGNETIC TAPES
Tape cartridge with high capacity storage of endless-loop magnetic tape
[NASA-CASE-XGS-00769] c14 N70-41647
Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
[NASA-CASE-XGS-01223] c07 N71-10609
Development of low friction magnetic recording tape
[NASA-CASE-XGS-00373] c23 N71-15978
System for recording and reproducing PCM data from data stored on magnetic tape
[NASA-CASE-XGS-01021] c08 N71-21042
Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995
Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-HSC-14219-1] c32 N74-27612
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c33 N76-18353
MAGNETIC TRANSDUCERS
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c35 N78-32397
MAGNETIZATION
Permanently magnetized ion engine casing construction for use in spacecraft propulsion systems
[NASA-CASE-XNP-06942] c28 N71-23293
MAGNETO-OPTICS
Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
MAGNETOHYDRODYNAMIC FLOW
Improving performance of magnetoplasma dynamic arc rocket engine
[NASA-CASE-LEW-11180-1] c25 N73-25760
MAGNETOHYDRODYNAMIC GENERATORS
Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Magnetohydrodynamic generator for mixing nonconductive gas and liquid metal mist to form slugs
[NASA-CASE-XLE-02083] c03 N69-39983
Thermoelectric power conversion by liquid metal flowing through magnetic field
[NASA-CASE-XNP-00644] c03 N70-36803
Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
MAGNETOMETERS
Nonmagnetic thermal motor for magnetometer movement
[NASA-CASE-XAR-03786] c09 N69-21313
Cryogenic flux-gated magnetometer using superconductors
[NASA-CASE-XAC-02407] c14 N69-27423
Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
Development of wide range linear fluxgate magnetometer
[NASA-CASE-XGS-01587] c14 N71-15962
Design and development of optically pumped resonance magnetometer for determining vectoral components in spatial coordinate system
[NASA-CASE-XGS-04879] c14 N71-20428
Temperature sensitive magnetometer with pulsating thermally cycled magnetic core
[NASA-CASE-XAC-03740] c14 N71-26135
Fluxgate magnetometer for measuring magnetic field along two axes using one sensor
[NASA-CASE-GSC-10441-1] c14 N71-27325
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c35 N75-13213

- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c35 N76-16390
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c04 N76-20114
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c35 N78-32397
- MAGNETRONS**
- Tuning arrangement for frequency control of magnetron-type electron discharge device
[NASA-CASE-XNP-09771] c09 N71-24841
- MAGNETS**
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c52 N77-25772
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c72 N80-27163
- MAGNIFICATION**
- Camera adapter design for image magnification including lens and illuminator
[NASA-CASE-XNP-03844-1] c14 N71-26474
- Passive type, magnifying scratch gage, force transducer
[NASA-CASE-LAR-10496-1] c14 N72-22437
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c74 N78-18905
- MAGNITUDE**
- Torqueometer for determining magnitude of torque generated by interaction of magnetic dipole between test specimen and ambient magnetic field
[NASA-CASE-XGS-01013] c14 N71-23725
- MAINTENANCE**
- Self testing and repairing computer comprising control and diagnostic unit and rollback points for error correction
[NASA-CASE-NPO-10567] c08 N71-24633
- Development of process for bonding resinous body in cavities of honeycomb structures
[NASA-CASE-MSG-12357] c15 N73-12489
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c24 N74-30001
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c37 N80-20589
- MAJFUNCTIONS**
- Aircraft instrument for indicating malfunctions during takeoff
[NASA-CASE-XLA-00100] c14 N70-36807
- MANDRELS**
- Mandrel for shaping solid propellant rocket fuel into engine casing
[NASA-CASE-XLA-00304] c27 N70-34783
- Rotating, multisided mandrel for fabricating gored inflatable spacecraft
[NASA-CASE-XLA-04143] c15 N71-17687
- Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel
[NASA-CASE-XLA-04126] c28 N71-26779
- MANGANESE**
- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c76 N79-16678
- MANIFOLDS**
- Injector manifold assembly for bipropellant rocket engines providing for fuel propellant to serve as coolant
[NASA-CASE-XNP-00148] c28 N70-38710
- Collimated beam manifold and method for using the same --- laser beams
[NASA-CASE-NPS-25312-1] c74 N80-34251
- MANIPULATORS**
- Manipulator for remote handling in zero gravity environment
[NASA-CASE-NPS-14405] c15 N72-28495
- Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-NPS-21611-1] c54 N75-12616
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSG-14245-1] c18 N75-27041
- Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-NPS-22707-1] c37 N76-15457
- Remote manipulator system
[NASA-CASE-NPS-22022-1] c37 N76-15460
- Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c54 N77-32721
- Wrist joint assembly
[NASA-CASE-NPS-23311-1] c54 N78-17676
- Pneumatic inflatable end effector
[NASA-CASE-NPS-23696-1] c54 N78-32724
- A coupling device for moving vehicles
[NASA-CASE-GSC-12429-1] c37 N79-19364
- Terminal guidance sensor system
[NASA-CASE-NPO-14521-1] c54 N79-20746
- Compact artificial hand
[NASA-CASE-NPO-13906-1] c54 N79-24652
- Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c37 N79-28551
- Apparatus for sequentially transporting containers
[NASA-CASE-NPS-23846] c37 N80-29704
- MANNED ORBITAL LABORATORIES**
- Artificial gravity system for simulating self-locomotion capability of astronauts in rotating environments
[NASA-CASE-XLA-03127] c11 N71-10776
- MANNED ORBITAL RESEARCH LABORATORIES**
- Manned space station collapsible for launching and self-erectable in orbit
[NASA-CASE-XLA-00678] c31 N70-34296
- Radial module manned space station with artificial gravity environment
[NASA-CASE-XMS-01906] c31 N70-41373
- MANNED SPACE FLIGHT**
- Three-port transfer valve with one port open continuously suitable for manned space flight
[NASA-CASE-XAC-01158] c15 N71-23051
- Device for removing air from water for use in life support systems in manned space flight
[NASA-CASE-XLA-8914] c15 N73-12492
- MANNED SPACECRAFT**
- Manned space capsule configuration for orbital flight and atmospheric reentry
[NASA-CASE-XLA-00149] c31 N70-37938
- Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
- Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
- Design and configuration of manned space capsule
[NASA-CASE-XLA-01332] c31 N71-15664
- Development of method for producing artificial gravity in manned spacecraft
[NASA-CASE-XNP-02595] c31 N71-21881
- Chlorine generator for purifying water in life support systems of manned spacecraft
[NASA-CASE-XLA-08913] c14 N71-28933
- Collapsible couch system for manned space vehicles
[NASA-CASE-MSG-13140] c05 N72-11085
- Spacecraft with artificial gravity and earthlike atmosphere
[NASA-CASE-LEW-11101-1] c31 N73-32750
- MANOMETERS**
- Magnetically centered liquid column float
[NASA-CASE-XAC-00030] c14 N70-34820
- Absolute pressure measuring device for measuring gas density level in high vacuum range
[NASA-CASE-LAR-10000] c14 N73-30394
- MANUAL CONTROL**
- Multiple circuit switch apparatus requiring minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909
- Manual control mechanism for adjusting control rod to null position
[NASA-CASE-XLA-01808] c15 N71-20740
- Manually activated heat pump for mechanically converting human operator output into heat energy
[NASA-CASE-NPO-10677] c05 N72-11084
- Development of flight simulator system to show position of joystick displacement
[NASA-CASE-NPO-11497] c08 N73-25206
- Solid state controller three axes controller
[NASA-CASE-MSG-12394-1] c08 N74-10942
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c35 N75-29381
- A velocity vector control system augmented with direct lift control --- stability augmentation using manual control

- [NASA-CASE-LAR-12268-1] c08 N79-20136
- MANUFACTURING**
- Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits [NASA-CASE-ERC-10072] c09 N70-11148
- Standard coupling design for mass production [NASA-CASE-XMS-02532] c15 N70-41808
- Method for making screen with unlimited fineness of mesh and screen thickness [NASA-CASE-ILE-00953] c15 N71-15966
- Describing apparatus for manufacturing operations in low and zero gravity environments of orbital space flight [NASA-CASE-HFS-20410] c15 N71-19214
- Manufacture of fluid containers from fused coated polyester sheets having resealable septum [NASA-CASE-NPO-10123] c15 N71-24835
- Method of making solid propellant rocket motor having reliable high altitude capabilities, long shelf life, and capable of firing with nozzle closure with foamed plastic permanent mandrel [NASA-CASE-XLA-04126] c28 N71-26779
- Shielded flat conductor cable fabricated by electroless and electrolytic plating [NASA-CASE-HFS-13687] c09 N71-28691
- Production method for manufacturing porous tungsten bodies from tungsten powder particles [NASA-CASE-XNP-04339] c17 N71-29137
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils [NASA-CASE-GSC-11367-1] c44 N74-19692
- Apparatus for forming drive belts [NASA-CASE-NPO-13205-1] c31 N74-32917
- Bonding method in the manufacture of continuous regression rate sensor devices [NASA-CASE-LAR-10337-1] c24 N75-30260
- Process for fabricating SiC semiconductor devices [NASA-CASE-LEW-12094-1] c76 N76-25049
- Solar hydrogen generator [NASA-CASE-LAR-11361-1] c44 N77-22607
- Method of forming shrink-fit compression seal [NASA-CASE-LAR-11563-1] c37 N77-23482
- Method for making a hot wire anemometer and product thereof [NASA-CASE-ARC-10900-1] c35 N77-24454
- Method of manufacture of bonded fiber flywheel [NASA-CASE-HFS-23674-1] c24 N78-27182
- A heat exchanger and method of making [NASA-CASE-LEW-12441-3] c34 N79-23383
- Aluminium or copper substrate panel for selective absorption of solar energy [NASA-CASE-HFS-23518-3] c44 N80-16452
- Inorganic spark chamber frame and method of making the same [NASA-CASE-GSC-12354-1] c35 N80-20565
- MAPPING**
- Design and development of random function tracer for obtaining coordinates of points on contour maps [NASA-CASE-XLA-01401] c15 N71-21179
- Spacecraft transponder and ground station radar system for mapping planetary surfaces [NASA-CASE-NPO-11001] c07 N72-21118
- Seismic vibration source [NASA-CASE-NPO-14112-1] c46 N79-22679
- MAPS**
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site [NASA-CASE-LAR-10626-1] c19 N74-21015
- Optical process for producing classification maps from multispectral data [NASA-CASE-HSC-14472-1] c43 N77-10584
- MASERS**
- Segmented superconducting magnet producing staggered magnetic field and suitable for broadband traveling wave masers [NASA-CASE-XGS-10518] c16 N71-28554
- Traveling wave maser for operation in 7 to 20 GHz frequency range [NASA-CASE-NPO-11437] c16 N72-28521
- Reflected-wave maser --- low noise amplifier [NASA-CASE-NPO-13490-1] c36 N76-31512
- Multistation refrigeration system [NASA-CASE-NPO-13839-1] c31 N78-25256
- External bulb variable volume maser [NASA-CASE-GSC-12334-1] c36 N79-14362
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures [NASA-CASE-NPO-14254-1] c36 N80-18372
- MASKING**
- Reusable masking boot for chemical machining operations [NASA-CASE-XNP-02092] c15 N70-42033
- Composition and process for improving definition of resin masks used in chemical etching [NASA-CASE-XGS-04993] c14 N71-17574
- MASS**
- Apparatus for measuring human body mass in zero or reduced gravity environment [NASA-CASE-XMS-03371] c05 N70-42000
- Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models [NASA-CASE-LAR-10083-1] c15 N71-27006
- Fluid mass sensor for a zero gravity environment [NASA-CASE-MSC-14653-1] c35 N77-19385
- MASS BALANCE**
- Two plane balance for simultaneous measurements of multiple forces [NASA-CASE-XAC-00073] c14 N70-34813
- Control system for pressure balance device used in calibrating pressure gages [NASA-CASE-XNP-04134] c14 N71-23755
- MASS DISTRIBUTION**
- Electronic recording system for spatial mass distribution of liquid rocket propellant droplets or vapors ejected from high velocity nozzles [NASA-CASE-NPO-10185] c10 N71-26339
- MASS FLOW**
- Rocket engine injector orifice to accommodate changes in density, velocity, and pressure, thereby maintaining constant mass flow rate of propellant into rocket combustion chamber [NASA-CASE-ILE-03157] c28 N71-24736
- Mass flow meter containing beta source for measuring nonpolar liquid flow [NASA-CASE-HFS-20485] c14 N72-11365
- Generation of high temperature, high mass flow, and high Reynolds number air at hypersonic speeds [NASA-CASE-LAR-10578-1] c12 N73-25262
- MASS SPECTROMETERS**
- Analytical photoionization mass spectrometer with argon gas filter between light source and monochromator [NASA-CASE-LAR-10180-1] c06 N71-13461
- Design and characteristics of time of flight mass spectrometer to measure or analyze gases at low pressures and time of flight of single gas molecule [NASA-CASE-XNP-01056] c14 N71-23041
- Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids [NASA-CASE-ERC-10014] c14 N71-28863
- Test chambers with orifice and helium mass spectrometer for detecting leak rate of encapsulated semiconductor devices [NASA-CASE-ERC-10150] c14 N71-28992
- High speed scanner for measuring mass of preselcted gases at high sampling rate [NASA-CASE-LAR-10766-1] c14 N72-21432
- Apparatus for analyzing gas samples in containers including vacuum chamber, mass spectrometer, and gas chromatography [NASA-CASE-GSC-10903-1] c14 N73-12444
- Quadrupole mass spectrometer using noise spectrum for ion separation and identification [NASA-CASE-XNP-04231] c14 N73-32325
- Fast scan control for deflection type mass spectrometers [NASA-CASE-LAR-11428-1] c35 N74-34857
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump [NASA-CASE-NPO-13663-1] c35 N77-14406
- Method for fabricating a mass spectrometer inlet leak [NASA-CASE-GSC-12077-1] c35 N77-24455
- Dual acting slit control mechanism [NASA-CASE-LAR-11370-1] c35 N80-28686

MASS SPECTROSCOPY

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c35 N76-16393
- Fluid sampling device
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[NASA-CASE-NPO-11118] c03 N72-25021
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System for controlling torque buildup in
suspension of gondola connected to balloon by
parachute shroud lines
[NASA-CASE-GSC-11077-1] c02 N73-13008
Deploy/release system --- model aircraft flight
control
[NASA-CASE-LAR-11575-1] c02 N76-16014
- PARAGLIDERS**
Multiple parachute system for landing control of
Apollo type spacecraft
[NASA-CASE-XLA-00898] c02 N70-36804
- PARALLAX**
Projection system for display of parallax and
perspective
[NASA-CASE-MPS-23194-1] c35 N78-17357
- PARALLEL PLATES**
Describing instrument capable of measuring true
shear viscosity of liquids and viscoelastic
materials
[NASA-CASE-INP-09462] c14 N71-17584
Dynamic capacitor having a peripherally driven
element and system incorporating the same
[NASA-CASE-INP-02899-1] c33 N79-21265
- PARALLEL PROCESSING (COMPUTERS)**
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c60 N79-20751
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[NASA-CASE-GSC-12223-1] c60 N79-27864
- PARAMETRIC AMPLIFIERS**
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electronic noise problem in two parametric
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[NASA-CASE-LAR-10253-1] c09 N72-25258
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c33 N74-32660
- PARAWINGS**
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from space vehicle with minimum impact and
loading
[NASA-CASE-XMS-00907] c02 N70-41630

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PARKING

Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c37 N77-22480

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Equipment for measuring partial water vapor pressure in gas tank
[NASA-CASE-XMS-01618] c14 N71-20741

PARTICLE ACCELERATION

Selectron mechanism for mechanical separation and discrimination of high velocity molecular particles
[NASA-CASE-XLE-01533] c11 N71-10777

Method and apparatus for use in forming highly collimated beam of microparticles with high charge to mass ratio and injecting beam into electrostatic accelerating tube
[NASA-CASE-XGS-06628] c24 N71-16213

PARTICLE ACCELERATOR TARGETS

Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c73 N74-26767
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c72 N76-15860
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c31 N78-17237

PARTICLE BEAMS

Particle beam power density detection and measurement apparatus
[NASA-CASE-XLE-00243] c14 N70-38602
Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c72 N74-19310

PARTICLE COLLISIONS

Momentum-velocity analyzer for measuring minute space particles
[NASA-CASE-XMS-04201] c14 N71-22990

PARTICLE DENSITY (CONCENTRATION)

Particle detector for measuring micrometeoroid velocity in space
[NASA-CASE-XLA-00495] c14 N70-41332

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Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
[NASA-CASE-XGS-03230] c14 N71-23401
Apparatus for detecting particle emission lower than noise level of multiplier tube
[NASA-CASE-XLA-07813] c14 N72-17328

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[NASA-CASE-XLA-00135] c14 N70-33322
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[NASA-CASE-LAR-11434-1] c35 N76-22509

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[NASA-CASE-MSC-13802-2] c35 N76-15431
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[NASA-CASE-GSC-11889-1] c35 N76-16393

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[NASA-CASE-LEW-11390-3] c25 N76-29379

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[NASA-CASE-INP-04816] c06 N69-39936
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[NASA-CASE-XLE-00010] c15 N70-33382
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
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[NASA-CASE-MSC-19095-1] c37 N75-19683
Forward-scatter polarimeter for determining the gaseous depolarization factor in the presence of polluting polydispersed particles
[NASA-CASE-NPO-13756-1] c35 N76-14434
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[NASA-CASE-NPO-10151] c37 N78-17386

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[NASA-CASE-MPS-25000-1] c25 N79-14171
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c35 N80-18364

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[NASA-CASE-GSC-11892-1] c35 N76-15433
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[NASA-CASE-LAR-12177-1] c36 N79-28532

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[NASA-CASE-INP-09770] c15 N71-20440
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[NASA-CASE-XLE-06461-2] c17 N72-28535
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[NASA-CASE-XLE-06094] c33 N78-17293
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[NASA-CASE-NPO-13904-1] c25 N79-11152

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Design and development of device to prevent clogging in hoppers containing particulate materials
[NASA-CASE-LAR-10961-1] c15 N73-12496
Development and operation of apparatus for sampling particulates in gases in upper atmosphere
[NASA-CASE-HQN-10037-1] c14 N73-27376
Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MPS-21395-1] c25 N74-26948
Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401
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[NASA-CASE-LEW-11583-1] c35 N79-17192
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c35 N79-28527

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Space expandable tether device for use as passageway between two docked spacecraft
[NASA-CASE-XMS-10993] c15 N71-28936

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Erectable, inflatable, radio signal reflecting passive communication satellite
[NASA-CASE-XLA-00210] c30 N70-40309
Apparatus for measuring backscatter and transmission characteristics of sample segment of large spherical passive satellites
[NASA-CASE-XGS-02608] c07 N70-41678
Forming inflatable panels erectable in space for passive communication satellite
[NASA-CASE-XLA-03497] c15 N71-23052

PATIENTS

Stretcher with rigid head and neck support with capability of supporting immobilized person in vertical position for removal from vehicle hatch to exterior also useful as splint stretcher
[NASA-CASE-INP-06589] c05 N71-23159

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Roughness detector for recording surface pattern of irregularities
[NASA-CASE-XLA-00203] c14 N70-34161
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[NASA-CASE-HQN-10832-1] c71 N74-21014

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[NASA-CASE-MPS-23052-2] c74 N79-13855

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Plastic foam generator for space vehicle instrument payload package flotation in water landing
[NASA-CASE-XLA-00838] c03 N70-36778
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[NASA-CASE-XLA-02132] c31 N71-10582
Payload/spent rocket engine case separation system
[NASA-CASE-XLA-05369] c31 N71-15687
High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads

- [NASA-CASE-XLA-01339] c31 N71-15692
Payload soft landing system using stowable gas bag
- [NASA-CASE-XLA-09881] c31 N71-16085
Zero gravity apparatus utilizing pneumatic decelerating means to create payload subjected to zero gravity conditions by dropping its height
- [NASA-CASE-IMF-06515] c14 N71-23227
PCM TELEMETRY
Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
- [NASA-CASE-XGS-01983] c10 N70-41964
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
- [NASA-CASE-NPO-12107] c08 N71-27255
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- [NASA-CASE-KSC-10326] c08 N72-21197
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- [NASA-CASE-FRC-10111-1] c37 N79-10419
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- [NASA-CASE-INP-06031] c15 N71-15606
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- [NASA-CASE-XGS-04808] c03 N69-25146
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Dye penetrant and technique for nondestructive tests of solid surfaces contacted by liquid oxygen
- [NASA-CASE-IMF-02221] c18 N71-27170
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Method and device for detection of surface discontinuities or defects
- [NASA-CASE-MSC-14187-1] c35 N74-32879
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- [NASA-CASE-XLA-00934] c14 N71-22765
Portable penetrometer for analyzing soil characteristics
- [NASA-CASE-MFS-20774] c14 N73-19420
Auger-type soil penetrometer for burrowing into soil formations
- [NASA-CASE-IMF-05530] c14 N73-32321
Penetrometer --- for determining load bearing characteristics of inclined surfaces
- [NASA-CASE-NPO-11103-1] c35 N77-27367
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- [NASA-CASE-MFS-23720-3] c43 N79-25443
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- [NASA-CASE-MSC-13609-1] c05 N72-25122
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- [NASA-CASE-NPO-10768] c06 N71-27254
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- [NASA-CASE-NPO-10765] c06 N72-20121
Reaction of polyperfluoropolyenes with fluorine to produce saturated polymer chain or create reactive sites on chain
- [NASA-CASE-NPO-10862] c06 N72-22107
Silphenylenesiloxane polymer with in-chain perfluoroalkyl groups
- [NASA-CASE-MFS-20979] c06 N72-25151
Polymerization of perfluorobutadiene
- [NASA-CASE-NPO-10863-2] c06 N72-25152
Formation of polyurethane resins from hydroxy terminated perfluoro ethers
- [NASA-CASE-NPO-10768-2] c06 N72-27144
Process for preparing disilanolols with in-chain perfluoroalkyl groups
- [NASA-CASE-MFS-20979-2] c06 N73-32030
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- [NASA-CASE-MFS-22356-1] c23 N75-30256
Precision heat forming of tetrafluoroethylene tubing
- [NASA-CASE-MSC-18430-1] c31 N80-17292
Preparation of perfluorinated imidoamidoximes --- for eventual preparation of heat and chemical resistant polymers
- [NASA-CASE-ARC-11267-1] c23 N80-26386
Preparation of perfluorinated 1,2,4-oxadiazoles --- heat and chemical resistant polymers
- [NASA-CASE-ARC-11267-2] c25 N80-26407
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Preparation of heterocyclic block copolymer omega-diamidoximes
- [NASA-CASE-ARC-11060-1] c27 N79-22300
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- [NASA-CASE-LBW-10278-1] c15 N71-28582
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- [NASA-CASE-LAR-10318-1] c31 N74-18089
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- [NASA-CASE-MFS-23551-1] c04 N76-26175
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- [NASA-CASE-XGS-10010] c03 N72-15986
Test method and equipment for identifying faulty cells or connections in solar cell assemblies
- [NASA-CASE-NPO-10401] c03 N72-20033
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- [NASA-CASE-LAR-10800-1] c33 N72-27959
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- [NASA-CASE-MFS-23267-1] c35 N77-20401
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- [NASA-CASE-NPO-11091] c18 N72-22567
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- [NASA-CASE-NPO-14192-1] c39 N80-10507
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- [NASA-CASE-NPO-14101-1] c52 N80-14687
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- [NASA-CASE-NPO-14558-1] c46 N80-24906
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- [NASA-CASE-NPO-10447] c06 N70-11252
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- [NASA-CASE-MSC-90153-2] c05 N72-25120
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- [NASA-CASE-ILB-04599] c22 N72-20597
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- [NASA-CASE-ARC-10637-1] c35 N75-16783
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- [NASA-CASE-NPO-11203] c10 N72-20224
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- [NASA-CASE-NPO-11921-1] c32 N74-30523
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System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
- [NASA-CASE-NPO-10214] c10 N71-26577
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[NASA-CASE-GSC-12018-1] c33 N77-14334

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[NASA-CASE-INP-00701] c09 N70-40272

Bipolar phase detector and corrector for split phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392

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[NASA-CASE-INP-01306-2] c09 N71-24596

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[NASA-CASE-HSC-17832-1] c33 N74-14956

Low distortion automatic phase control circuit --- voltage controlled phase shifter
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[NASA-CASE-GSC-11829-1] c35 N75-27331

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[NASA-CASE-NPO-11515-1] c33 N77-13315

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[NASA-CASE-NPO-13812-1] c33 N77-30365

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System for stabilizing cable phase delay utilizing a coaxial cable under pressure
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[NASA-CASE-INP-01107] c10 N71-28859

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[NASA-CASE-INP-02723] c07 N70-41680

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[NASA-CASE-INP-08665] c10 N71-19467

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[NASA-CASE-NPO-11941-1] c10 N73-27171

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[NASA-CASE-NPO-11593-1] c07 N73-28012

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[NASA-CASE-NPO-11628-1] c07 N73-30113

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[NASA-CASE-HPS-22073-1] c33 N75-13139

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[NASA-CASE-NPO-10302] c10 N71-26142

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[NASA-CASE-HSC-13201-1] c07 N71-28429

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[NASA-CASE-NPO-11548] c07 N73-26118

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[NASA-CASE-NPO-13103-1] c32 N74-20811

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[NASA-CASE-LRW-12780-1] c20 N79-20179

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[NASA-CASE-IGS-01590] c07 N71-12392

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[NASA-CASE-GSC-10021-1] c09 N71-24595

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[NASA-CASE-NPO-11338] c08 N72-25208

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[NASA-CASE-NPO-14220-1] c37 N78-25430

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[NASA-CASE-GSC-12228-1] c33 N79-10338

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[NASA-CASE-ARC-10269-1] c10 N72-16172
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[NASA-CASE-NPO-11129] c09 N72-33204
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[NASA-CASE-MFS-21465-1] c10 N73-32145
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[NASA-CASE-MFS-21671-1] c33 N74-22885
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[NASA-CASE-XLB-02083] c03 N69-39983
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[NASA-CASE-XLB-01182] c27 N71-15635
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[NASA-CASE-LAR-11435-1] c35 N76-15432
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[NASA-CASE-ERC-10285] c10 N73-16206
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[NASA-CASE-HSC-14939-1] c32 N79-11264
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[NASA-CASE-HSC-16800-1] c32 N79-19194
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[NASA-CASE-NPO-10844] c07 N72-20140
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[NASA-CASE-NPO-11905-1] c33 N74-12887
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[NASA-CASE-GSC-12018-1] c33 N77-14334
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[NASA-CASE-LAR-10337-1] c24 N75-30260
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[NASA-CASE-NPO-10998-1] c06 N73-32029
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[NASA-CASE-LEW-12513-1] c25 N79-22235
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[NASA-CASE-ERC-10468] c09 N72-20206
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- Continuous operation, single phased, induction plasma accelerator producing supersonic speeds
[NASA-CASE-XLA-01354] c25 N70-36946
- Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
- Direct current powered self repeating plasma accelerator with interconnected annular and linear discharge channels
[NASA-CASE-XLA-03103] c25 N71-21693
- Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184
- Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c75 N76-14931
- PLASMA CONTROL**
- Superconducting magnetic field trapping device for producing magnetic field in air
[NASA-CASE-XNP-01185] c26 N73-28710
- Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c75 N75-13625
- PLASMA CYLINDERS**
- Plasma-fluidic hybrid display system combining high brightness and memory characteristics
[NASA-CASE-ERC-10100] c09 N71-33519
- PLASMA DENSITY**
- Apertured electrode focusing system for ion sources with nonuniform plasma density
[NASA-CASE-XNP-03332] c09 N71-10618
- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156
- PLASMA DIAGNOSTICS**
- Plasma probes having guard ring and primary sensor at same potential to prevent stray wall current collection in ionized gases
[NASA-CASE-XLE-00690] c25 N69-39884
- Apparatus for measuring conductivity and velocity of plasma with multiple sensing coils positioned in plasma
[NASA-CASE-XAC-05695] c25 N71-16073
- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156
- PLASMA DYNAMICS**
- Apparatus for measuring conductivity and velocity of plasma with multiple sensing coils positioned in plasma
[NASA-CASE-XAC-05695] c25 N71-16073
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[NASA-CASE-MFS-22145-1] c75 N75-13625
- PLASMA ENGINES**
- Nonconductive tube as feed system for plasma thruster
[NASA-CASE-XLE-02902] c25 N71-21694
- PLASMA GENERATORS**
- Apparatus for producing highly conductive, high temperature electron plasma with homogeneous temperature and pressure distribution
[NASA-CASE-XLA-00147] c25 N70-34661
- Crossed field MHD plasma generator-accelerator
[NASA-CASE-XLA-03374] c25 N71-15562
- Coaxial, high density, hypervelocity plasma generator and accelerator using electrodes
[NASA-CASE-MFS-20589] c25 N72-32688
- Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
[NASA-CASE-MFS-22145-1] c75 N75-13625
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c75 N76-17951
- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c36 N77-19416
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- Plasma spraying gun for forming diffusion bonded metal or ceramic coatings on substrates
[NASA-CASE-XLE-01604-2] c15 N71-15610

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- Method of preparing water purification membranes
--- polymerization of allyl amine as thin
films in plasma discharge
[NASA-CASE-ARC-10643-1] c25 N75-12087
- Combination automatic-starting electrical plasma
torch and gas shutoff valve --- for satellite
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[NASA-CASE-XLB-10717] c37 N75-29426
- Plasma cleaning device --- designed for high
vacuum environments
[NASA-CASE-MPS-22906-1] c75 N78-27913

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- Electrostatic modulator for communicating
through plasma sheath formed around spacecraft
during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
- Method and apparatus for communicating through
ionized layer of gases surrounding spacecraft
during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
- Reentry communication by injection of water
droplets into plasma layer surrounding space
vehicle
[NASA-CASE-XLA-01552] c07 N71-11284

PLASMA POTENTIALS

- Method and apparatus for neutralizing potentials
induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c33 N77-10429

PLASMA PROBES

- Plasma probes having guard ring and primary
sensor at same potential to prevent stray wall
current collection in ionized gases
[NASA-CASE-XLB-00690] c25 N69-39884
- Small plasma probe using tungsten wire collector
in tubular shield
[NASA-CASE-XLB-02578] c25 N71-20747

PLASMA PROPULSION

- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c20 N75-18310

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- Development of method for measuring electron
density gradients of plasma sheath around
space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563
- Apparatus for producing monochromatic light from
continuous plasma source
[NASA-CASE-IMP-04167-2] c25 N72-24753

PLASMA SHEATHS

- Space environment simulation system for
measuring spacecraft electric field strength
in plasma sheath
[NASA-CASE-XLB-02038] c09 N71-16086
- Development of method for measuring electron
density gradients of plasma sheath around
space vehicle during atmospheric entry
[NASA-CASE-XLA-06232] c25 N71-20563

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- Plane or plasma spraying for molybdenum coating
of carbon or graphite surfaces to prevent
oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077
- Improved refractory coatings and method of
producing the same
[NASA-CASE-LEW-13169-1] c26 N80-14232
- Fully plasma-sprayed compliant backed ceramic
turbine seal
[NASA-CASE-LEW-13268-1] c37 N80-24619

PLASMA TEMPERATURE

- Measurement of plasma temperature and density
using radiation absorption
[NASA-CASE-ARC-10598-1] c75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c37 N79-11405

PLASMAS (PHYSICS)

- Apparatus for measuring conductivity and
velocity of plasma with multiple sensing coils
positioned in plasma
[NASA-CASE-XAC-05695] c25 N71-16073

PLASTIC COATINGS

- Process permitting application of synthetic
resin coating to irregular-shaped objects at
ambient temperature
[NASA-CASE-IMP-06508] c18 N69-39895
- Development and characteristics of system for
skin packaging articles using thermoplastic
film heating and vacuum operated equipment
[NASA-CASE-MPS-20855] c15 N73-27405

Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c44 N77-14580

Oxygen post-treatment of plastic surface coated
with plasma polymerized silicon-containing
monomers

[NASA-CASE-ARC-10915-2] c27 N79-18052

Flexible formulated plastic separators for

alkaline batteries

[NASA-CASE-LEW-12363-4] c44 N80-18555

Flexible formulated plastic separators for

alkaline batteries

[NASA-CASE-LEW-12363-3] c44 N80-18556

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Process for analysis of strain field of
structures subjected to large deformations
involving low modulus substrate with thin
coating

[NASA-CASE-LAR-10765-1] c32 N73-20740

PLASTIC TAPES

Development of flexible thermocouple in form of
tape for adaptation to special temperature
measuring conditions

[NASA-CASE-LEW-11072-1] c14 N73-24472

PLASTICIZERS

Inorganic-organic separators for alkaline
batteries

[NASA-CASE-LEW-12649-1] c44 N78-25530

Tackifier for addition polyimides

[NASA-CASE-LAR-12642-1] c27 N80-18179

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Hot forming of plastic sheets

[NASA-CASE-XMS-05516] c15 N71-17803

Technique for making foldable, inflatable,
plastic honeycomb core panels for use in
building and bridge structures, light and
radio wave reflectors, and spacecraft

[NASA-CASE-XLA-03492] c15 N71-22713

Electrode sealing and insulation for fuel cells
containing caustic liquid electrolytes using
powdered plastic and metal

[NASA-CASE-XMS-01625] c15 N71-23022

Dielectric apparatus for heating, fusing, and
hardening of organic matrix to form plastic
material into shaped product

[NASA-CASE-LAR-10121-1] c15 N71-26721

Plastic sphere for radar tracking and calibration

[NASA-CASE-XLA-11154] c07 N72-21117

Molding apparatus --- for thermosetting plastic
compositions

[NASA-CASE-LAR-10489-2] c31 N74-32920

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compositions

[NASA-CASE-ARC-10592-2] c27 N76-32315

Abrasion resistant coatings for plastic surfaces

[NASA-CASE-ARC-10915-3] c24 N77-24200

Precision heat forming of tetrafluoroethylene
tubing

[NASA-CASE-MSC-18430-1] c31 N80-17292

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other

[NASA-CASE-XLB-05130] c15 N69-21362

Fifth wheel

[NASA-CASE-FRC-10081-1] c37 N77-14477

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[NASA-CASE-GSC-12171-1] c33 N79-28416

Floating nut retention system

[NASA-CASE-MSC-16938-1] c37 N80-23653

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Selective plating of etched circuits without
removing previous plating

[NASA-CASE-XGS-03120] c15 N71-24047

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metallic power/peening particle mixture

[NASA-CASE-GSC-11163-1] c15 N73-32360

Scanning nozzle plating system --- for etching
or plating metals on substrates without masking

[NASA-CASE-NPO-11758-1] c31 N74-23065

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[NASA-CASE-MSC-12327-1] c35 N77-27368

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Instrument for measuring potentials on two dimensional electric field plot [NASA-CASE-XLA-08493] c10 N71-19421

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Cascade plug nozzle --- for jet noise reduction [NASA-CASE-LAR-11674-1] c07 N76-18117

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Rocket chamber leak test fixture using tubular plug [NASA-CASE-XPR-09479] c14 N69-27503

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Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation [NASA-CASE-GSC-10640-1] c28 N72-18766

High temperature penetrator assembly with bayonet plug and ramp-activated lock [NASA-CASE-MSC-18526-1] c35 N80-19468

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Pneumatic system for cyclic control of fluid flow in pneumatic device [NASA-CASE-XMS-04843] c03 N69-21469

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[NASA-CASE-HPS-23904-1] c20 N79-13077

Apparatus for endoscopic examination ---
analysis of the propulsion system
configuration and transmitter
[NASA-CASE-NPO-14092-1] c52 N80-16725

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Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c07 N78-18067

PROSTHETIC DEVICES

Prosthetic limb with tactile sensing device
[NASA-CASE-HPS-16570-1] c05 N73-32013

Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-HPS-21611-1] c54 N75-12616

Actuator device for artificial leg
[NASA-CASE-HPS-23225-1] c52 N77-14735

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236

Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c54 N77-30749

Mechanical energy storage device for hip
disarticulation
[NASA-CASE-ARC-10916-1] c52 N78-10686

Method of adhering bone to a rigid substrate
using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c27 N78-17215

Drop foot corrective device
[NASA-CASE-LAR-12259-1] c54 N78-18762

Prosthetic urinary sphincter
[NASA-CASE-HPS-23717-1] c52 N79-14756

Compact artificial hand
[NASA-CASE-NPO-13906-1] c54 N79-24652

Prosthesis coupling
[NASA-CASE-KSC-11069-1] c52 N79-26772

PROTECTION

Camera protecting device for use in
photographing rocket engine nozzles or other
engine components
[NASA-CASE-NPO-10174] c14 N71-18465

Fiber modified polyurethane foam for ballistic
protection
[NASA-CASE-ARC-10714-1] c27 N76-15310

PROTECTIVE CLOTHING

Conditioning tanned sharkskin for use as
abrasive resistant clothing
[NASA-CASE-XNS-09691-1] c18 N71-15545

One piece human garment for use as contamination
proof garment
[NASA-CASE-MSC-12206-1] c05 N71-17599

Thermoregulating with cooling flow pipe network
for humans
[NASA-CASE-XNS-10269] c05 N71-24147

Development of improved convolute section for
pressurized suits to provide high degree of
mobility in response to minimum of applied
torque
[NASA-CASE-XNS-09637-1] c05 N71-24730

Voice operated receiving and transmitting system
for use in protective suits
[NASA-CASE-KSC-10164] c07 N71-33108

Protective garment ventilation system
[NASA-CASE-XNS-04928] c54 N78-17679

Vitro-violet process for producing flame
resistant polyamides and products produced
thereby --- protective clothing for high
oxygen environments
[NASA-CASE-MSC-16074-1] c27 N80-26446

PROTECTIVE COATINGS

Process permitting application of synthetic
resin coating to irregular-shaped objects at
ambient temperature
[NASA-CASE-INP-06508] c18 N69-39895

Ultraviolet radiation resistant alkali-metal
silicate coatings for temperature control of
spacecraft
[NASA-CASE-XGS-04119] c18 N69-39979

Application techniques for protecting materials
during salt bath brazing
[NASA-CASE-XLE-00046] c15 N70-33311

Removable potting compound for instrument shock
protection
[NASA-CASE-XLA-00482] c15 N70-36409

Passive thermal control coating on aluminum foil
laminate for inflatable spacecraft surfaces
[NASA-CASE-XLA-01291] c33 N70-36617

Using ethylene oxide in preparation of
sterilized solid rocket propellants and
encapsulating materials
[NASA-CASE-INP-01749] c27 N70-41897

Fireproof potassium silicate coating
composition, insoluble in water after
application
[NASA-CASE-GSC-10072] c18 N71-14014

Development of bacteriostatic conformal coating
and methods of application
[NASA-CASE-GSC-10007] c18 N71-16046

Vapor deposited laminated nitride-silicon
coating for corrosion prevention of
carbaceous surfaces
[NASA-CASE-XLA-00284] c15 N71-16075

Flame or plasma spraying for molybdenum coating
of carbon or graphite surfaces to prevent
oxidative corrosion
[NASA-CASE-XLA-00302] c15 N71-16077

Development and characteristics of protective
coatings for spacecraft
[NASA-CASE-INP-02507] c31 N71-17679

Development of thermal insulation system for
wing and control surfaces of hypersonic
aircraft and reentry vehicles
[NASA-CASE-XLA-00892] c33 N71-17897

Bismuth and lead surface coatings for gas
bearings in aerospace engineering
[NASA-CASE-XGS-02011] c15 N71-20739

Composition and production method of alkali
metal silicate paint with ultraviolet
reflection properties
[NASA-CASE-XGS-04799] c18 N71-24183

Method for treating metal surfaces to prevent
secondary electron transmission
[NASA-CASE-INP-09469] c24 N71-25555

Development of solid state polymer coating for
obtaining thermal balance in spacecraft
components
[NASA-CASE-XLA-01745] c33 N71-28903

Method for coating through-holes in ceramic
substrates used in fabricating miniaturized
electronic circuits
[NASA-CASE-INP-05999] c15 N71-29032

Zinc dust formulation for abrasion resistant
steel coatings
[NASA-CASE-GSC-10361-1] c18 N72-23581

Development of process for constructing
protective covers for solar cells
[NASA-CASE-GSC-11514-1] c03 N72-24037

Resin for protecting p-n semiconductor junction
surface
[NASA-CASE-ERC-10339-1] c18 N73-30532

Nonflammable coating compositions --- for use in
high oxygen environments
[NASA-CASE-HPS-20486-2] c27 N74-17283

Fused silicide coatings containing discrete
particles for protecting niobium alloys ---
used in space shuttle thermal protection
systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229

High temperature oxidation resistant ceramic
compositions
[NASA-CASE-NPO-13666-1] c27 N77-13217

Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c24 N77-19170

Abrasion resistant coatings for plastic surfaces
[NASA-CASE-ARC-10915-3] c24 N77-24200

Intumescent coatings containing
4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c24 N78-14096

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Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c24 N78-24290
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[NASA-CASE-MSC-16307-1] c25 N78-27232
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[NASA-CASE-ARC-11051-1] c27 N78-32260
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c37 N78-32434
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMP-02526-1] c27 N79-21190
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c15 N79-26100
Corrosion resistant thermal barrier coating --- protecting gas turbines and other heat engine parts
[NASA-CASE-LEW-13088-1] c24 N80-11142
Improved refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c26 N80-14232
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-1] c27 N80-24440
A silicon-slurry/aluminate coating --- protects aircraft and land-based gas turbine engines
[NASA-CASE-LEW-13343-1] c24 N80-26389

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Load cell protection device using spring-loaded breakaway mechanism
[NASA-CASE-XMS-06782] c32 N71-15974
Payload soft landing system using stowable gas bag
[NASA-CASE-XLA-09881] c31 N71-16085

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Protein sterilization of firefly luciferase without denaturation
[NASA-CASE-GSC-10225-1] c06 N73-27086

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Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c19 N74-29410

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System designed to reduce time required for obtaining synchronization in data communication with spacecraft utilizing pseudonoise codes
[NASA-CASE-NPO-10214] c10 N71-26577
Linear shift register with feedback logic for generating pseudonoise linear recurring binary sequences
[NASA-CASE-NPO-11406] c08 N73-12175
Multicarrier communications system for transmitting modulated signals from single transmitter
[NASA-CASE-NPO-11548] c07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c35 N75-21582

PULLEYS

Apparatus for measuring load on cable under static or dynamic conditions comprising pulleys pivoting structure against restraint of tension strap
[NASA-CASE-XMS-04545] c15 N71-22878
Tensile strength testing device having pulley guides for exerting multiple forces on test specimen
[NASA-CASE-XNP-05634] c15 N71-24834

PULMONARY CIRCULATION

Pulmonary resuscitation method and apparatus with adjustable pressure regulator
[NASA-CASE-XMS-01115] c05 N70-39922

PULMONARY FUNCTIONS

Piston device for producing known constant positive pressure within lungs by using thoracic muscles
[NASA-CASE-XMS-01615] c05 N70-41329

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Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
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[NASA-CASE-XLA-00670] c08 N71-12501
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[NASA-CASE-XNP-00477] c08 N73-28045
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[NASA-CASE-LAR-11389-1] c33 N77-26387
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[NASA-CASE-GSC-11898-1] c32 N77-30309
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[NASA-CASE-XMP-04367] c09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c36 N79-21336
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Adaptive compression signal processor for PCM communication systems
[NASA-CASE-XLA-03076] c07 N71-11266
Bipolar phase detector and corrector for split phase PCM data signals
[NASA-CASE-XGS-01590] c07 N71-12392
System for recording and reproducing PCM data from data stored on magnetic tape
[NASA-CASE-XGS-01021] c08 N71-21042
Frequency shift keying apparatus for use with pulse code modulation data transmission system
[NASA-CASE-XGS-01537] c07 N71-23405
Data reduction and transmission system for TV PCM data
[NASA-CASE-NPO-11243] c07 N72-20154
Pulse code modulated data from frequency multiplex communications by digital phase shift or carrier
[NASA-CASE-NPO-11338] c08 N72-25208
Bit synchronization of PCM communications signal, without separate synchronization channel by digital correlation
[NASA-CASE-NPO-11302-1] c07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c35 N74-17885
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[NASA-CASE-MSC-12462-1] c32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810
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[NASA-CASE-MSC-14558-1] c32 N75-21486
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
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[NASA-CASE-MSC-12506-1] c32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c33 N80-31731
PULSE COMMUNICATION
Phase shift data transmission system with pseudo-noise synchronization code modulated with digital data into single channel for spacecraft communication
[NASA-CASE-XNP-00911] c08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c32 N77-12239
Memory-based frame synchronizer --- for voice data processing in digital communication systems
[NASA-CASE-GSC-12430-1] c32 N80-20453
PULSE DURATION
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[NASA-CASE-XNP-07040] c08 N71-12500
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[NASA-CASE-XMP-06519] c09 N71-12519
Design and development of variable pulse width multiplier
[NASA-CASE-XLA-02850] c09 N71-20447
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[NASA-CASE-MFS-10068] c10 N71-25139

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- One shot multivibrator circuit for producing long duration output pulses
[NASA-CASE-ABC-10137-1] c09 N71-28468
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c33 N74-32711
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- Pulse duration modulation multiplier system
[NASA-CASE-XER-09213] c07 N71-12390
- Variable duration pulse integrator design for integrating pulse duration modulated pulses with elimination of ripple content
[NASA-CASE-XLA-01219] c10 N71-23084
- Electric motor control system with pulse width modulation for providing automatic null seeking servo
[NASA-CASE-INP-05195] c10 N71-24861
- Pulse duration control device for driving slow response time loads in selected sequence including switching and delay circuits and magnetic storage
[NASA-CASE-XGS-04224] c10 N71-26418
- Monostable multivibrator for producing output pulse widths with positive feedback NOR gates
[NASA-CASE-MSC-13492-1] c10 N71-28860
- Load current sensor for series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c09 N72-25249
- Buck/boost regulator
[NASA-CASE-GSC-12360-1] c33 N79-27394
- PULSE FREQUENCY MODULATION**
- Electric current measuring apparatus design including saturable core transformer and energy storage device to avoid magnetizing current errors from transformer output winding
[NASA-CASE-XGS-02439] c14 N71-19431
- Digitally controlled frequency synthesizer for pulse frequency modulation telemetry systems
[NASA-CASE-XGS-02317] c09 N71-23525
- Noninterruptible digital counter circuit design with display device for pulse frequency modulation
[NASA-CASE-INP-09759] c08 N71-24891
- Threshold extension device for improving operating performance of frequency modulation demodulators by eliminating click-type noise impulses
[NASA-CASE-MSC-12165-1] c07 N71-33696
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c35 N79-14349
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- High voltage pulse generator for testing flash and ignition limits of nonmetallic materials in controlled atmospheres
[NASA-CASE-MSC-12178-1] c09 N71-13518
- Interrogator and current driver circuit for combination with transistor flip-flop circuit
[NASA-CASE-XGS-03058] c10 N71-19547
- Electric circuit for producing high current pulse having fast rise and fall time
[NASA-CASE-INS-04919] c09 N71-23270
- Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
- Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
- Pulse generating circuit for operation at very high duty cycles and repetition rates
[NASA-CASE-INP-00745] c10 N71-28960
- Pulse coupling circuit with switch between generator and winding
[NASA-CASE-LEW-10433-1] c09 N72-22197
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MPS-21233-1] c38 N74-15395
- Random pulse generator
[NASA-CASE-MSC-14131-1] c33 N75-19515
- Frequency tracked pulse technique for ultrasonic analysis
[NASA-CASE-LAR-12697-1] c32 N80-26571
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- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c32 N79-26253
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- Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-INP-06234] c10 N71-27137
- Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c33 N75-18479
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c52 N80-23969
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- Repetitively pulsed wavelength selective carbon dioxide laser
[NASA-CASE-ERC-10178] c16 N71-24832
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c36 N75-19654
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c74 N79-17683
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[NASA-CASE-NPO-14556-1] c36 N79-21336
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[NASA-CASE-NPO-15111-1] c36 N80-24602
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- Development and characteristics of cyclically operable, optical shutter for use as focal plane shutter for transmitting single radiation pulses
[NASA-CASE-NPO-10758] c14 N73-14427
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- High resolution radar transmitting system for transmitting optical pulses to targets
[NASA-CASE-NPO-11426] c07 N73-26119
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- Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-INP-08881] c17 N71-28747
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[NASA-CASE-LEW-10326-3] c37 N74-10474
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- Piezoelectric pump for supplying fluid at high frequencies to gyroscope fluid suspension system
[NASA-CASE-INP-05429] c26 N71-21824
- Vapor-liquid separator design with vapor driven pump for separated liquid pumping for application in propellant transfer
[NASA-CASE-INP-04042] c15 N71-23023
- Automatically reciprocating, high pressure pump for use in spacecraft cryogenic propellants
[NASA-CASE-INP-04731] c15 N71-24042
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[NASA-CASE-MPS-20830] c15 N71-30028
- Pumping and metering dual piston system and monitor for reaction chamber constituents
[NASA-CASE-GSC-10218-1] c15 N72-21465
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c37 N74-27904
- Continuous coal processing method and means
[NASA-CASE-NPO-13758-2] c28 N80-10377
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- Describing device for flagging punched business cards
[NASA-CASE-XLA-02705] c08 N71-15908
- Handling tool for printed circuit cards
[NASA-CASE-MPS-20453] c15 N71-29133
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- Punch and die device for forming convolution series in thin gage metal hemispheres
[NASA-CASE-INP-05297] c15 N71-23811
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- Carbon dioxide purge systems to prevent condensation in spaces between cryogenic fuel tanks and hypersonic vehicle skin
[NASA-CASE-XLA-01967] c31 N70-42015
- Developing high pressure gas purification and filtration system for use in test operations of space vehicles
[NASA-CASE-MPS-12806] c14 N71-17588
- Fluid transferring system design for purging toxic, corrosive, or noxious fluids and fumes from materials handling equipment for cleansing and accident prevention
[NASA-CASE-INS-01905] c12 N71-21089
- Device for back purging thrust engines
[NASA-CASE-XMS-04826] c28 N71-28849

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[NASA-CASE-NPO-11978] c31 N78-17238

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[NASA-CASE-XMP-06888] c15 N71-24044
Purification apparatus for vaporization and fractional distillation of liquids
[NASA-CASE-XNP-08124] c15 N71-27184
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[NASA-CASE-ARC-10643-2] c51 N75-13506
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[NASA-CASE-LEW-10518-3] c25 N78-27226
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[NASA-CASE-NPO-13847-2] c85 N79-17747
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[NASA-CASE-NPO-14474-1] c26 N80-14229

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[NASA-CASE-XMP-06409] c06 N71-23230

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[NASA-CASE-LAR-12468-1] c08 N80-22359

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[NASA-CASE-NPO-10557] c27 N78-17214

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Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c20 N78-24275

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[NASA-CASE-NPO-14315-1] c27 N80-10361
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[NASA-CASE-NPO-14369-1] c25 N80-20338

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[NASA-CASE-XNP-04389] c28 N71-20942

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[NASA-CASE-XMS-01816] c33 N71-15623

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[NASA-CASE-ILA-01781] c14 N69-39975

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[NASA-CASE-LAR-10367-1] c03 N70-26817
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[NASA-CASE-NPO-11330] c33 N73-26958

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[NASA-CASE-NPO-11743-1] c28 N74-27425
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[NASA-CASE-ARC-10042-2] c10 N72-11256

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[NASA-CASE-HSC-14428-1] c23 N77-17161
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[NASA-CASE-HSC-16841-1] c34 N79-24285

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[NASA-CASE-NPO-10691] c14 N71-26199
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[NASA-CASE-XNP-02500] c18 N71-27397
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[NASA-CASE-HQN-10756-1] c14 N72-25428
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[NASA-CASE-HSC-14428-1] c23 N77-17161
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[NASA-CASE-HSC-16497-1] c25 N79-23167

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[NASA-CASE-NPO-12134-1] c33 N76-31409

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[NASA-CASE-XNP-02340] c23 N69-24332
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[NASA-CASE-NFS-23405-1] c26 N77-29260
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[NASA-CASE-NPO-14473-1] c37 N80-23654

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[NASA-CASE-ILA-00141] c09 N70-33312
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[NASA-CASE-XMS-09610] c07 N71-24625
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[NASA-CASE-GSC-11862-1] c32 N76-18295
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[NASA-CASE-NPO-13568-1] c32 N76-21365

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[NASA-CASE-NPO-13587-1] c32 N77-32342

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 [NASA-CASE-LAR-11390-1] c32 N77-21267
 Clutter free synthetic aperture radar correlator
 [NASA-CASE-NPO-14035-1] c32 N78-18266
 Multibeam single frequency synthetic aperture
 radar processor for imaging separate range
 swaths
 [NASA-CASE-NPO-14525-1] c32 N79-19195
 Radar target for remotely sensing hydrological
 phenomena
 [NASA-CASE-LAR-12344-1] c43 N80-18498
 Multibeam single frequency synthetic aperture
 radar processor for imaging separate range
 swaths
 [NASA-CASE-NPO-14525-2] c32 N80-32607
RADAR MEASUREMENT
 Thickness measurement system
 [NASA-CASE-MPS-23721-1] c31 N79-28370
RADAR RANGE
 Radar signal receiver arrangement for extending
 range and increasing signal to noise ratio
 [NASA-CASE-XNP-00748] c07 N70-36911
RADAR RECEIVERS
 Polarization diversity monopulse tracking
 receiver design without radio frequency switches
 [NASA-CASE-XGS-03501] c09 N71-20864
RADAR RECEPTION
 Radar signal receiver arrangement for extending
 range and increasing signal to noise ratio
 [NASA-CASE-XNP-00748] c07 N70-36911
RADAR REFLECTORS
 Inflatable radar reflector unit - lightweight,
 highly reflective to electromagnetic
 radiation, and adaptable for erection and
 deployment with minimum effort and time
 [NASA-CASE-XMS-00893] c07 N70-40063
 Method of locating persons in distress --- by
 using radar imagery from radar reflectors
 [NASA-CASE-LAR-11390-1] c32 N77-21267
RADAR TARGETS
 Radar target for remotely sensing hydrological
 phenomena
 [NASA-CASE-LAR-12344-1] c43 N80-18498
RADAR TRACKING
 Tracking antenna system with array for
 synchronous satellite or ground based radar
 [NASA-CASE-GSC-10553-1] c07 N71-19854
 Polarization diversity monopulse tracking
 receiver design without radio frequency switches
 [NASA-CASE-XGS-03501] c09 N71-20864
 Monopulse tracking system with antenna array of
 three radiators for deriving azimuth and
 elevation indications
 [NASA-CASE-XGS-01155] c10 N71-21483
 Plastic sphere for radar tracking and calibration
 [NASA-CASE-XLA-11154] c07 N72-21117
 Echo tracker/range finder for radars and sonars
 [NASA-CASE-NPO-14361-1] c32 N79-26253
RADAR TRANSMITTERS
 High resolution radar transmitting system for
 transmitting optical pulses to targets
 [NASA-CASE-NPO-11426] c07 N73-26119
RADIAL FLOW
 Radial heat flux transformer for use in heating
 and cooling processes
 [NASA-CASE-NPO-10828] c33 N72-17948
 Axially and radially controllable magnetic bearing
 [NASA-CASE-GSC-11551-1] c37 N76-18459
RADIANCE
 Method and apparatus for measuring shock layer
 radiation distribution about high velocity
 objects
 [NASA-CASE-IAC-02970] c14 N69-39896
RADIANT COOLING
 Direct radiation cooling of linear beam
 collector tubes
 [NASA-CASE-XNP-09227] c15 N69-24319
 High thermal emittance black surface coatings
 and process for applying to metal and metal
 alloy surfaces used in radiative cooling of
 spacecraft
 [NASA-CASE-XLA-06199] c15 N71-24875
 Method for attaching a fused-quartz mirror to a
 conductive metal substrate

[NASA-CASE-MPS-23405-1] c26 N77-29260
RADIANT PLOX DENSITY
 High intensity radiant energy pulse source for
 calibrating heat transfer gages with
 thermoluminescent shutter activation
 [NASA-CASE-ABC-10178-1] c09 N72-17152
 Microwave power transmission beam safety system
 [NASA-CASE-NPO-14224-1] c33 N80-18287
RADIANT HEATING
 High intensity heat and light unit containing
 quartz lamp elements protectively positioned
 to withstand severe environmental stress
 [NASA-CASE-XLA-00141] c09 N70-33312
 High temperature source of thermal radiation
 [NASA-CASE-XLE-00490] c33 N70-34545
 Refractory filament series circuitry for radiant
 heater
 [NASA-CASE-XLE-00367] c33 N70-34812
 Unfired ceramic insulation for protection from
 radiant heating environments
 [NASA-CASE-MPS-14253] c33 N71-24858
 Portable linear-focused solar thermal energy
 collecting system
 [NASA-CASE-NPO-13734-1] c44 N78-10554
RADIATION
 Development of radiant energy sensor to detect
 the radiant energy wavelength bands from
 portions of radiating body
 [NASA-CASE-ERC-10174] c14 N72-25409
 Development of thermopile with sensor surface to
 receive radiant energy and to provide
 measurement of energy quantity
 [NASA-CASE-NPO-11493] c14 N73-12447
 Analog to digital converter for two-dimensional
 radiant energy array computers
 [NASA-CASE-GSC-11839-3] c60 N77-32731
 Memory device for two-dimensional radiant energy
 array computers
 [NASA-CASE-GSC-11839-2] c60 N78-10709
RADIATION ABSORPTION
 NDIR gas analyzer based on absorption modulation
 ratios for known and unknown samples
 [NASA-CASE-ABC-10802-1] c35 N75-30502
 Method for making an aluminum or copper
 substrate panel for selective absorption of
 solar energy
 [NASA-CASE-MPS-23518-1] c44 N79-11469
RADIATION COUNTERS
 Particle detector for indicating incidence and
 energy of minute space particles
 [NASA-CASE-XLA-00135] c14 N70-33322
 Sensing method and device for determining
 orientation of space vehicle or satellite by
 using particle traps
 [NASA-CASE-XGS-00466] c21 N70-34297
 Particle beam power density detection and
 measurement apparatus
 [NASA-CASE-XLE-00243] c14 N70-38602
 Automatic baseline stabilization for ionization
 detector used in gas chromatograph
 [NASA-CASE-XNP-03128] c10 N70-41991
 Method of forming thin window drifted silicon
 charged particle detector
 [NASA-CASE-XLE-00808] c24 N71-10560
 Development of dosimeter for measuring absorbed
 dose of high energy ionizing radiation
 [NASA-CASE-XLA-03645] c14 N71-20430
 Apparatus for detecting particle emission lower
 than noise level of multiplier tube
 [NASA-CASE-XLA-07813] c14 N72-17328
 Radiation or charged particle detector and
 amplifier
 [NASA-CASE-NPO-12128-1] c14 N73-32317
 Coaxial anode wire for gas radiation counters
 [NASA-CASE-GSC-11492-1] c35 N74-26949
 Particle parameter analyzing system --- x-y
 plotter circuits and display
 [NASA-CASE-XLE-06094] c33 N78-17293
 Method and means for helium/hydrogen ratio
 measurement by alpha scattering
 [NASA-CASE-NPO-14079-1] c25 N80-20334
RADIATION DAMAGE
 Addition of group 3 elements to silicon
 semiconductor material for increased
 resistance to radiation damage in solar cells
 [NASA-CASE-XLE-02798] c26 N71-23654
 Recovering efficiency of solar cells damaged by
 environmental radiation through thermal
 annealing

RADIATION DETECTORS

[NASA-CASE-XGS-04047-2] c03 N72-11062
 Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
 [NASA-CASE-ARC-10593-1] c33 N74-27682

RADIATION DETECTORS
 Radiation source and detection system for measuring amount of liquid inside tanks independently of liquid configuration
 [NASA-CASE-MSC-12280] c27 N71-16348
 Detection instrument for light emitted from ATP biochemical reaction
 [NASA-CASE-XGS-05534] c23 N71-16355
 Attitude sensor with scanning mirrors for detecting orientation of space vehicle with respect to planet
 [NASA-CASE-XLA-00793] c21 N71-22880
 Mosaic semiconductor radiation detector and position indicator systems engineering for low energy particles
 [NASA-CASE-XGS-03230] c14 N71-23401
 Nondispersive gas analysis using radiation detection for quantitative analysis
 [NASA-CASE-ARC-10308-1] c06 N72-31141
 Radiation source tracker comprised of sectorized matrix of detectors with output voltages corresponding to irradiance levels
 [NASA-CASE-NPO-11686] c14 N73-25462
 Radiation or charged particle detector and amplifier
 [NASA-CASE-NPO-12128-1] c14 N73-32317
 Mossbauer spectrometer radiation detector
 [NASA-CASE-LAR-11155-1] c35 N74-15091
 High field Cds detector for infrared radiation
 [NASA-CASE-LAR-11027-1] c35 N74-18088
 Flame detector operable in presence of proton radiation
 [NASA-CASE-MFS-21577-1] c19 N74-29410
 Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
 [NASA-CASE-NPO-13327-1] c35 N75-23910
 Detector absorptivity measuring method and apparatus
 [NASA-CASE-LAR-10907-1] c35 N76-29551
 Wedge immersed thermistor bolometers
 [NASA-CASE-XGS-01245-1] c35 N79-33449

RADIATION DISTRIBUTION
 Space simulator with uniform test region radiation distribution, adapted to simulate Venus solar radiations
 [NASA-CASE-XNP-00459] c11 N70-38675

RADIATION DOSAGE
 Development of dosimeter for measuring absorbed dose of high energy ionizing radiation
 [NASA-CASE-XLA-03645] c14 N71-20430
 Method for analyzing radiation sensitivity of integrated circuits
 [NASA-CASE-NPO-14350-1] c33 N80-14332

RADIATION EFFECTS
 Method for temperature compensating semiconductor gages by exposure to high energy radiation
 [NASA-CASE-XLA-04555-1] c14 N71-25892

RADIATION HARDENING
 Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
 [NASA-CASE-GSC-11425-1] c76 N74-20329

RADIATION MEASUREMENT
 Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
 [NASA-CASE-NPO-11493] c14 N73-12447

RADIATION MEASURING INSTRUMENTS
 Rocket-borne aspect sensor consisting of radiation sensor, apertured disk, commutator, and counting circuits
 [NASA-CASE-XGS-08266] c14 N69-27432
 Infrared scanning system for maintaining spacecraft orientation with earth reference
 [NASA-CASE-XLA-00120] c21 N70-33181
 Multiple wavelength radiation measuring instrument for determining hot body or gas temperature
 [NASA-CASE-XLE-00011] c14 N70-41946
 Development of method for improving signal to noise ratio and accuracy of Wheatstone bridge type radiation measuring instrument
 [NASA-CASE-XLA-02810] c14 N71-25901

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Development of thermopile with sensor surface to receive radiant energy and to provide measurement of energy quantity
 [NASA-CASE-NPO-11493] c14 N73-12447
 Phototransistor with base collector junction diode for integration into photo sensor arrays
 [NASA-CASE-MFS-20407] c09 N73-19235
 Method and apparatus for measuring electromagnetic radiation
 [NASA-CASE-LEW-11159-1] c14 N73-28488
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 [NASA-CASE-MFS-21441-1] c14 N73-30392
 Coaxial anode wire for gas radiation counters
 [NASA-CASE-GSC-11492-1] c35 N74-26949
 Cloud cover sensor
 [NASA-CASE-NPO-14936-1] c47 N80-26992

RADIATION MEDICINE
 Method of producing I-123 --- by bombardment of cesium causing spallation
 [NASA-CASE-LEW-11390-2] c25 N76-27383

RADIATION PRESSURE
 Method and apparatus for shaping and enhancing acoustical levitation forces --- ultrasonic transducer for generating a radiation pressure field
 [NASA-CASE-MFS-25050-1] c71 N79-29956

RADIATION PROTECTION
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 [NASA-CASE-XNP-01310] c33 N71-28852
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 [NASA-CASE-MFS-20180] c16 N72-12440
 Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
 [NASA-CASE-ARC-10593-1] c33 N74-27682

RADIATION SHIELDING
 Encapsulated heater forming hollow body for cathode used in ion thruster
 [NASA-CASE-LEW-10814-1] c28 N70-35422
 Describing hot filament type Bayard-Alpert ionization gage with ion collector buried or removed from grid structure
 [NASA-CASE-XLA-07424] c14 N71-18482
 Sealed housing for protecting electronic equipment against electromagnetic interference
 [NASA-CASE-MSC-12168-1] c09 N71-18600
 Internal labyrinth and shield structure to improve electrical isolation of propellant feed source from ion thruster
 [NASA-CASE-LEW-10210-1] c28 N71-26781
 Apparatus for aligning shadow shields and cryogenic storage tanks in outer space with the sun
 [NASA-CASE-KSC-10622-1] c31 N72-21893
 Light shield and cooling apparatus --- high intensity ultraviolet lamp
 [NASA-CASE-LAR-10089-1] c34 N74-23066

RADIATION SOURCES
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 [NASA-CASE-XNP-03934] c09 N71-22985
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 [NASA-CASE-MFS-20095] c24 N72-11595
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 [NASA-CASE-NPO-11686] c14 N73-25462
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 [NASA-CASE-LEW-11162-1] c33 N74-12913
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 [NASA-CASE-XLA-10402] c14 N71-29041

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- Doping silicon material with gadolinium to increase radiation resistance of solar cells [NASA-CASE-XLE-02792] c26 N71-10607
- Improving radiation resistance of silicon semiconductor junctions by doping with lithium [NASA-CASE-XGS-07801] c09 N71-12513
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- Transient heat transfer gage for measuring total radiant intensity from far ultraviolet and ionized high temperature gases [NASA-CASE-XNP-09802] c33 N71-15641
- Construction and method of arranging plurality of ion engines to form cluster thereby increasing efficiency and control by decreasing heat radiated to space [NASA-CASE-XNP-02923] c28 N71-23081
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- Low loss parasitic probe antenna for prelaunch tests of spacecraft antennas [NASA-CASE-XKS-09348] c09 N71-13521
- VHF/UHF parasitic probe antenna for spacecraft communication [NASA-CASE-XKS-09340] c07 N71-24614
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- Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector [NASA-CASE-NPO-13568-1] c32 N76-21365
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- Redundant RF system for space application [NASA-CASE-NPO-13955-1] c32 N79-22347
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- Helical coaxial resonator RF filter [NASA-CASE-XGS-02816] c07 N69-24323
- Automatic gain control amplifier system [NASA-CASE-XMS-05307] c09 N69-24330
- Method and apparatus for bowing of instrument panels to improve radio frequency shielded enclosure [NASA-CASE-XNP-09422] c07 N71-19436
- Development of automatic frequency discriminators and control for phase lock loop providing frequency preset capabilities [NASA-CASE-XNP-08665] c10 N71-19467
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- Radio frequency coaxial filter to provide dc isolation and low frequency signal rejection in audio range [NASA-CASE-XGS-01418] c09 N71-23573
- Variable frequency nuclear magnetic resonance spectrometer providing drive signals over wide frequency range and minimizing noise effects [NASA-CASE-XNP-09830] c14 N71-26266
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[NASA-CASE-XGS-02610] c14 N71-23174
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[NASA-CASE-XGS-01812] c07 N71-23001
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[NASA-CASE-NPO-10753] c03 N72-26031
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[NASA-CASE-LBW-10518-1] c24 N72-33681
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[NASA-CASE-XNP-02588] c15 N71-18613
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[NASA-CASE-LBW-11860-1] c37 N76-18458
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[NASA-CASE-BRC-10174] c14 N72-25409
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[NASA-CASE-BRC-10081] c14 N72-28437
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[NASA-CASE-NFS-21108-1] c34 N74-27861
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[NASA-CASE-ARC-11120-1] c52 N80-18691
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[NASA-CASE-XLA-02619] c10 N71-26334
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[NASA-CASE-GSC-12447-1] c60 N80-21987
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[NASA-CASE-XLA-02131] c32 N70-42003
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[NASA-CASE-NPO-10169] c10 N71-24844
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[NASA-CASE-NPO-13982-1] c32 N79-14267
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[NASA-CASE-NPO-14361-1] c32 N79-26253
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[NASA-CASE-XNS-05454-1] c07 N71-12391
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[NASA-CASE-NPO-10066] c09 N71-18598
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[NASA-CASE-NPO-11194] c08 N72-25209
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[NASA-CASE-NPO-11707] c07 N73-25161
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Magnetically controlled plasma accelerator capable of ignition in low density gaseous environment
[NASA-CASE-XLA-00327] c25 N71-29184
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[NASA-CASE-LAR-10128-1] c08 N73-20217
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[NASA-CASE-XNP-00906] c09 N70-41655
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[NASA-CASE-XNP-02966] c10 N71-24863
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- Design of active RC network capable of operating at high Q values with reduced sensitivity to gain amplification and number of passive components
[NASA-CASE-ARC-10042-2] c10 N72-11256
- Active RC filter networks and amplifiers for deep space magnetic field measurement
[NASA-CASE-XAC-05462-2] c10 N72-17171
- RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
- Multiloop RC active filter network with low parameter sensitivity and low amplifier gain
[NASA-CASE-ARC-10192] c09 N72-21245
- Temperature control system comprised of wheatstone bridge with RC circuit
[NASA-CASE-NPO-11304] c14 N73-26430
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 N75-19520
- REACTION CONTROL**
Development of voice operated controller for controlling reaction jets of spacecraft
[NASA-CASE-XLA-04063] c31 N71-33160
- REACTION KINETICS**
Autocatalytic coal liquefaction process
[NASA-CASE-NPO-14876-1] c28 N80-26460
- REACTION TIME**
An improved synthesis of 2, 4, 8, 10-tetrazaspiro (5.5)undecane
[NASA-CASE-ARC-11243-1] c27 N79-30375
- Improved synthesis of polyformals
[NASA-CASE-ARC-11244-1] c27 N79-30376
- REACTION WHEELS**
Satellite stabilization reaction wheel scanner
[NASA-CASE-XGS-02629] c14 N71-21082
- Gravity gradient attitude control system with gravity gradiometer and reaction wheels for artificial satellite attitude control
[NASA-CASE-GSC-10555-1] c21 N71-27324
- REACTIVITY**
Absorbing gas reactivity control system for minimizing power distribution and perturbation in nuclear reactors
[NASA-CASE-XLE-04599] c22 N72-20597
- REACTOR CORES**
Reactor heated in-core diodes for energy conversion
[NASA-CASE-NPO-10542] c09 N72-27228
- REACTOR DESIGN**
Non-equilibrium radiation nuclear reactor
[NASA-CASE-BQN-10841-1] c73 N78-19920
- REACTOR MATERIALS**
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c26 N77-20201
- REACTOR PHYSICS**
Non-equilibrium radiation nuclear reactor
[NASA-CASE-BQN-10841-1] c73 N78-19920
- READOUT**
Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864
- System for checking status of several double-throw switches by readout indications
[NASA-CASE-XLA-08799] c10 N71-27272
- Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c35 N78-29421
- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c36 N80-18380
- REAL TIME OPERATION**
Respiratory analysis system to determine gas flow rate and frequency of respiration and expiration cycles in real time
[NASA-CASE-MSC-13436-1] c05 N73-32015
- Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c35 N74-17153
- Real time liquid crystal image converter
[NASA-CASE-LAR-11206-1] c74 N74-30118
- Real time, large volume, moving scene, holographic camera system
[NASA-CASE-MFS-22537-1] c35 N75-27328
- Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c35 N75-29380
- Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372
- Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c35 N77-31465
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c52 N79-10724
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c32 N79-14268
- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c46 N80-14603
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c74 N80-24152
- REBREATHING**
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c54 N80-10799
- RECEIVERS**
Semiconductor in resonant cavity for improving signal to noise ratio of communication receiver
[NASA-CASE-MSC-12259-1] c07 N70-12616
- Improved phase lock loop for receiver in multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c07 N73-28012
- Automatic carrier acquisition system for phase locked loop receiver
[NASA-CASE-NPO-11628-1] c07 N73-30113
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c32 N74-30523
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c32 N76-16249
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346
- Self-calibrating threshold detector --- signal detectors for use with receivers using a demodulator for signal encoding
[NASA-CASE-MSC-16370-1] c32 N80-10413
- RECONNAISSANCE AIRCRAFT**
Method for observing the features characterizing the surface of a land mass
[NASA-CASE-PRC-11013-1] c05 N79-24979
- RECONSTRUCTION**
Method and means for recording and reconstructing holograms without use of reference beam
[NASA-CASE-ERC-10020] c16 N71-26154
- RECORDING HEADS**
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c35 N77-21392
- RECORDING INSTRUMENTS**
Weighing and recording device for obtaining precise automatic record of small changes in force
[NASA-CASE-XLA-02605] c14 N71-10773
- Blood pressure measuring system for separately recording dc and ac pressure signals of Korotkoff sounds
[NASA-CASE-XMS-06061] c05 N71-23317
- Helical recorder for multiple channel recording
[NASA-CASE-GSC-10614-1] c09 N72-11224
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c36 N74-13205
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c35 N74-26946
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c35 N74-32877
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 N77-20410
- RECOVERABILITY**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c35 N74-16135
- RECOVERABLE LAUNCH VEHICLES**
Techniques for recovery of multistage rocket vehicles by providing lifting surfaces on individual sections
[NASA-CASE-XMF-00389] c31 N70-34176
- RECOVERABLE SPACECRAFT**
Describing assembly for opening stabilizing and

- decelerating flaps of flight capsules used in space research
[NASA-CASE-XMF-03169] c31 N71-15675
- RECOVERY PARACHUTES**
Parachute system for lowering manned spacecraft from post-reentry to ocean landing
[NASA-CASE-XLA-00195] c02 N70-38009
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
- RECTANGULAR PANELS**
Rectangular solar cell stacked panels to generate electrical power aboard spacecraft
[NASA-CASE-NPO-11771] c03 N73-20040
Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c24 N78-10214
- RECTIFIERS**
Lithium drifted silicon radiation detector with gold rectifying contacts
[NASA-CASE-XLE-10529] c14 N69-23191
Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888
Precision full wave rectifier circuit for rectifying incoming electrical signals having positive or negative polarity with only positive output signals
[NASA-CASE-ARC-10101-1] c09 N71-33109
Voltage amplitude-responsive trigger circuit with silicon controlled rectifier
[NASA-CASE-GSC-10221-1] c09 N72-23171
Dc to ac to dc converter with transistor driven synchronous rectifiers
[NASA-CASE-GSC-11126-1] c09 N72-25253
- REDUCED GRAVITY**
Reduced gravity liquid configuration simulator to study propellant behavior in rocket fuel tanks
[NASA-CASE-XLE-02624] c12 N69-39988
Apparatus for measuring human body mass in zero or reduced gravity environment
[NASA-CASE-XMS-03371] c05 N70-42000
Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028
Development of restraint system for securing personnel to ergometer while exercising under weightless conditions
[NASA-CASE-MFS-21046-1] c14 N73-27377
- REDUCTION (CHEMISTRY)**
Producing metal powders of controlled particle size by reducing oxide using reactive metal vapor in vacua
[NASA-CASE-XLE-06461] c17 N72-22530
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c37 N76-18458
Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c27 N80-32514
- REDUNDANCY**
Redundant RF system for space application
[NASA-CASE-NPO-13955-1] c32 N79-22347
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c60 N80-30050
- REDUNDANT COMPONENTS**
Redundant memory for enhanced reliability of digital data processing system
[NASA-CASE-GSC-10564] c10 N71-29135
Redundant disc
[NASA-CASE-LEW-12496-1] c07 N78-33101
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c37 N80-32716
- REELS**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c38 N77-17495
- REENTRY COMMUNICATION**
Electrostatic modulator for communicating through plasma sheath formed around spacecraft during reentry
[NASA-CASE-XLA-01400] c07 N70-41331
Method and apparatus for communicating through ionized layer of gases surrounding spacecraft during reentry into planetary atmospheres
[NASA-CASE-XLA-01127] c07 N70-41372
- Reentry communication by injection of water droplets into plasma layer surrounding space vehicle
[NASA-CASE-XLA-01552] c07 N71-11284
- REENTRY SHIELDING**
Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075
Method and apparatus for fabrication of heat insulating and ablative reentry structure
[NASA-CASE-XMS-02009] c33 N71-20834
Ablative heat shield for protection from aerodynamic heating of reentry spacecraft
[NASA-CASE-MSC-12143-1] c33 N72-17947
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c73 N75-30876
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c24 N79-24062
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c27 N80-23454
- REENTRY TRAJECTORIES**
Aerodynamic configuration of reentry vehicle heat shield to provide longitudinal and directional stability at hypersonic velocities
[NASA-CASE-XMS-04142] c31 N70-41631
- REENTRY VEHICLES**
Leading edge design for hypersonic reentry vehicles
[NASA-CASE-XLA-00165] c31 N70-33242
Delta winged, manned reentry vehicle capable of horizontal glide landing at low speeds
[NASA-CASE-XLA-00241] c31 N70-37986
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Ablation sensor for measuring surface ablation rate of material on vehicles entering earths atmosphere on entry into planetary atmospheres
[NASA-CASE-XLA-01791] c14 N71-22991
Design of ring wing vehicle of high drag-to-weight ratio to withstand reentry stress into low density atmosphere
[NASA-CASE-XLA-04901] c31 N71-24315
Development of auxiliary lifting system to provide ferry capability for entry vehicles
[NASA-CASE-LAR-10574-1] c11 N73-13257
Development and operating principles of gas generator for deploying recovery parachutes from space capsules during atmospheric entry
[NASA-CASE-LAR-10549-1] c31 N73-13898
Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c27 N76-23426
- REFERENCE SYSTEMS**
Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c04 N77-19056
- REFINING**
Helium refining by superfluidity
[NASA-CASE-XNP-00733] c06 N70-34946
Coal desulfurization
[NASA-CASE-NPO-14272-1] c25 N78-33164
- REFLECTANCE**
Optical characteristics measuring apparatus
[NASA-CASE-XNP-08840] c23 N71-16365
Device for determining acceleration of gravity by interferometric measurement of travel of falling body
[NASA-CASE-XMF-05844] c14 N71-17587
Highly stable optical mirror assembly optimizing image quality of light diffraction patterns
[NASA-CASE-ERC-10001] c23 N71-24868
- REFLECTED WAVES**
Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-MFS-20243] c23 N73-13662
Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c36 N75-15028
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c36 N76-31512

REFLECTING TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MPS-23675-1] c89 N79-10969

REFLECTION

Vacuum preparation of zinc titanate pigment resistant to loss of reflective properties
[NASA-CASE-MPS-13532] c18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c74 N76-20958

REFLECTOMETERS

Ellipsoidal mirror reflector for measuring reflectance
[NASA-CASE-XGS-05291] c23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MPS-23118-1] c35 N77-31465
Coal-shale interface detection
[NASA-CASE-MPS-23720-3] c43 N79-25443
Visible and infrared polarization ratio spectroreflectometer
[NASA-CASE-LAR-12285-1] c35 N80-28687

REFLECTORS

Method of compactly packaging centrifugally expandable lightweight flexible reflector satellite
[NASA-CASE-XLA-00138] c31 N70-37981
Antenna design with self erecting mesh reflector
[NASA-CASE-XGS-09190] c31 N71-16102
Cylindrical reflector for resolving wide angle light beam from telescope into narrow beam for spectroscopic analysis
[NASA-CASE-XGS-08269] c23 N71-26206
Conical reflector antenna with feed approximating line source
[NASA-CASE-NPO-10303] c07 N72-22127
Target acquisition antenna feed with reflector system
[NASA-CASE-GSC-10064-1] c10 N72-22235
Multipurpose microwave antenna, employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c07 N72-25174
Characteristics of microwave antenna with conical reflectors to generate plane wave front
[NASA-CASE-NPO-11661] c07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c44 N78-31526
Wide angle optical systems --- multispectral scanner
[NASA-CASE-MSC-18373-1] c74 N80-11892
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c74 N80-24152

REFRACTIVITY

The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c74 N78-13874
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c74 N80-27185

REFRACTORY MATERIALS

Test apparatus for determining mechanical properties of refractory materials at high temperatures in vacuum or inert atmospheres
[NASA-CASE-XLE-00335] c14 N70-35368
Prestressed rocket nozzle with ceramic inner rings and refractory metal outer rings
[NASA-CASE-XNP-02888] c18 N71-21068
Hydrostatic extrusion of refractory materials using simple press
[NASA-CASE-NPO-10811] c15 N71-34425
Semiconductor device manufacture using refractory dielectrics as diffusant masks and interconnection insulating materials
[NASA-CASE-XER-08476-1] c26 N72-17820
Electric furnace for vacuum and zero gravity melting of high melting point materials during earth orbit
[NASA-CASE-MPS-20710] c11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c27 N79-14213

A method of making high temperature seals

[NASA-CASE-MSC-16973-1] c37 N79-17224
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c27 N79-28307
Improved refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c26 N80-14232
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c27 N80-23454
Castable high temperature refractory materials
[NASA-CASE-LEW-13080-1] c27 N80-29496

REFRACTORY METALS

Refractory filament series circuitry for radiant heater
[NASA-CASE-XLE-00387] c33 N70-34812
Production of refractory bodies with controlled porosity by pressing and heating mixtures of refractory and inert metal powders
[NASA-CASE-LEW-10393-1] c17 N71-15468
Multilayer porous refractory metal ionizer design with thick, porous, large-grain substrates and thin, porous micron-grain substrates
[NASA-CASE-XNP-04338] c17 N71-23046
Brazing alloy adapted for brazing corrosion resistant steel to refractory metals, also for brazing refractory metals to other refractory metals
[NASA-CASE-XNP-03063] c17 N71-23365
Development and characteristics of thermal radiation shielding of refractory metal foil used for induction furnace
[NASA-CASE-XLE-03432] c33 N71-24145
Production of high strength refractory compounds and microconstituents into refractory metal matrix
[NASA-CASE-XLE-03940] c18 N71-26153
Silicide coating process and composition for protection of refractory metals from oxidation
[NASA-CASE-XLE-10910] c18 N71-29040
Development of procedure for improved distribution of refractory compounds and micro-constituents in refractory metal matrix
[NASA-CASE-XLE-03940-2] c17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c37 N76-23570

REFRIGERATING

Heat exchanger and decontamination system for multistage refrigeration unit
[NASA-CASE-NPO-10634] c23 N72-25619

REFRIGERATING MACHINERY

Gas balancing, cryogenic refrigeration apparatus with Joule-Thomson valve assembly
[NASA-CASE-NPO-10309] c15 N69-23190
Method and apparatus for producing very low temperature refrigeration based on gas pressure balance
[NASA-CASE-XNP-08877] c15 N71-23025
Dual solid cryogenics for spacecraft refrigeration insuring low temperature cooling for extended periods
[NASA-CASE-GSC-10188-1] c23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N76-29590

REFRIGERATORS

Intermittent type silica gel adsorption refrigerator for providing temperature control for spacecraft components
[NASA-CASE-XNP-00920] c15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c31 N79-17029

REGENERATION (ENGINEERING)

Switching circuit with regeneratively connected transistors eliminating power consumption when not in use
[NASA-CASE-XNP-02654] c10 N70-42032

Direct current electromotive system for regenerative braking of electric motor
[NASA-CASE-XMP-01096] c10 N71-16030

Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c37 N80-31790

REGENERATION (PHYSIOLOGY)

An implantable electrical device
[NASA-CASE-GSC-12560-1] c52 N80-27073

REGENERATIVE COOLING

Metal ribbon wrapped outer wall for regeneratively cooled combustion chamber
[NASA-CASE-XLE-00164] c15 N70-36411

Fabrication method for lightweight regeneratively cooled combustion chamber of channel construction
[NASA-CASE-XLE-00150] c28 N70-41818

Regenerative cooling system for small rocket engine having restart capability and using noncryogenic hypergolic propellants
[NASA-CASE-XLE-00685] c28 N70-41992

Regenerative cooling system for rocket combustion chamber using coolant tubes in convergent-divergent nozzle
[NASA-CASE-XLE-04857] c28 N71-23968

Thermocouple apparatus for measuring wall temperatures in regeneratively cooled rocket engines having thin walled cooling passages
[NASA-CASE-XLE-05230-2] c14 N73-13417

REGENERATIVE FUEL CELLS

Electrolytically regenerative hydrogen-oxygen fuel cells
[NASA-CASE-XLE-04526] c03 N71-11052

REGENERATORS

Loop transponder for regenerating code of au-type ranging system
[NASA-CASE-NPO-11707] c07 N73-25161

REGISTERS (COMPUTERS)

Data processor with plural register stages for selectively interconnecting with each other to effect multiplicity of operations
[NASA-CASE-GSC-10186] c08 N71-33110

Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c60 N76-18800

REINFORCED PLASTICS

Process for developing filament reinforced plastic tubes used in research and development programs
[NASA-CASE-LAR-10203-1] c15 N72-16330

Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c27 N74-23125

REINFORCEMENT (STRUCTURES)

Reinforcing beam system for highly flexible diaphragms in valves or pressure switches
[NASA-CASE-XNP-01962] c32 N70-41370

Fabrication of light weight panel structure using pairs of elongate hollow ribs of semicircular configuration
[NASA-CASE-LAR-11052-1] c32 N73-13929

REINFORCING FIBERS

High strength reinforced metallic composites for applications over wide temperature range
[NASA-CASE-XLE-02428] c17 N70-33288

Method for producing fiber reinforced metallic composites with high strength and elasticity over wide temperature range
[NASA-CASE-XLE-00231] c17 N70-38198

Description of method for producing metallic composites reinforced with ceramic and refractory hard metals that are fibered in place
[NASA-CASE-XLE-03925] c18 N71-22894

Production and application of sprayable fiber reinforced ablation material
[NASA-CASE-XLA-04251] c18 N71-26100

Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MPS-21077-1] c24 N75-28135

Fuselage structure using advanced technology metal matrix fiber reinforced composites
[NASA-CASE-LAR-11688-1] c05 N78-18045

Ceramic fiber insulating material and method of producing same --- aircraft construction materials
[NASA-CASE-HSC-14795-2] c24 N78-25138

Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c27 N80-16158

RELAXATION OSCILLATORS

Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASE-GSC-10022-1] c10 N71-25882

RELAY SATELLITES

Earth satellite relay station for frequency multiplexed voice transmission
[NASA-CASE-GSC-10118-1] c07 N71-24621

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c32 N80-20448

RELEASING

Bolt-latch mechanism for releasing despin weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601

Quick-release coupling for fueling rocket vehicles with cryogenic propellants
[NASA-CASE-XKS-01985] c15 N71-10782

Design and development of release mechanism for spacecraft components, releasable despin weights, and extensible gravity booms
[NASA-CASE-XGS-08718] c15 N71-24600

Pneumatic mechanism for releasing hook and loop fasteners between large rigid structures
[NASA-CASE-XMS-10660-1] c15 N71-25975

Delayed simultaneous appendage release mechanism for use on spacecraft equipped with despin mechanisms and releasable components
[NASA-CASE-GSC-10814-1] c03 N73-20039

RELIABILITY ANALYSIS

Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495

RELIABILITY ENGINEERING

Improving load capacity and fatigue life of rolling element systems in rockets and missiles
[NASA-CASE-XLE-02999] c15 N71-16052

Gage for quality control of sealing surfaces of threaded boss
[NASA-CASE-XMP-04966] c14 N71-17658

Reliability of automatic refilling valving device for cryogenic liquid systems
[NASA-CASE-NPO-11177] c15 N72-17453

Reliability of electrical connectors after heat sterilization
[NASA-CASE-NPO-10694] c09 N72-20200

Reliable electrical element heater using plural wire system and backup power sources
[NASA-CASE-MPS-21462-1] c33 N74-14935

Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c37 N74-21064

RELIEF VALVES

Relief valve to permit slow and fast bleeding rates at difference pressure levels
[NASA-CASE-XMS-05894-1] c15 N69-21924

Describing apparatus for separating gas from cryogenic liquid under zero gravity and for venting gas from fuel tank
[NASA-CASE-XLE-00586] c15 N71-15968

Redundant hydraulic control system for actuators with three main valve combination
[NASA-CASE-MPS-20944] c15 N73-13466

REMOTE CONTROL

Oscillatory electromagnetic mirror drive system for horizon scanners
[NASA-CASE-XLA-03724] c14 N69-27461

Stage separation using remote control release of joint with explosive insert
[NASA-CASE-XLA-02854] c15 N69-27490

Power controlled bimetallic electromechanical actuator for accurate, timely, and reliable response to remote control signal
[NASA-CASE-XNP-09776] c09 N69-39929

Two component valve assembly for cryogenic liquid transfer regulation
[NASA-CASE-XLE-00397] c15 N70-36492

Remotely actuated quick disconnect mechanism for umbilical cables
[NASA-CASE-XLA-030711] c03 N71-12258

Remotely actuated quick disconnect for tubular umbilical conduits used to transfer fluids from ground to rocket vehicle
[NASA-CASE-XLA-01396] c03 N71-12259

- Remote control device operated by movement of finger tips for manual control of spacecraft attitude
[NASA-CASE-IAC-02405] c09 N71-16089
- Satellite radio communication system with remote steerable antenna
[NASA-CASE-IHP-02389] c07 N71-28900
- Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
- Solid state remote circuit selector switching circuit
[NASA-CASE-LEW-10387] c09 N72-22201
- Design and development of multichannel laser remote control system using modulated helium-neon laser as transmitter and light collector as receiving antenna
[NASA-CASE-LAR-10311-1] c16 N73-16536
- Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c54 N75-27758
- Remotely operable articulated manipulator
[NASA-CASE-MPS-22707-1] c37 N76-15457
- Remote manipulator system
[NASA-CASE-MPS-22022-1] c37 N76-15460
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[NASA-CASE-KSC-11031-1] c33 N79-11315
- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MPS-23052-2] c74 N79-13855
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[NASA-CASE-NPO-14521-1] c54 N79-20746
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[NASA-CASE-LAR-10634-1] c37 N74-18123
- Anthropomorphic master/slave manipulator system
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[NASA-CASE-MPS-23846] c37 N80-29704
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- Coupling device for moving vehicles
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- REMOTE SENSORS**
- Passive optical wind and turbulence remote detection system
[NASA-CASE-IHP-14032] c20 N71-16340
- Ionization control system design for monitoring separately located ion gage pressures on vacuum chambers
[NASA-CASE-XLE-00787] c14 N71-21090
- Flow angle sensor and remote readout system for use with cryogenic fluids
[NASA-CASE-XLE-04503] c14 N71-24864
- Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
- Development of radiometric sensor to warn aircraft pilots of region of clear air turbulence along flight path
[NASA-CASE-ERC-10081] c14 N72-28437
- Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 N73-25160
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- Voltage monitoring system
[NASA-CASE-KSC-10736-1] c33 N75-19521
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[NASA-CASE-NPO-13462-1] c35 N76-24524
- Focused laser Doppler velocimeter
[NASA-CASE-MPS-23178-1] c35 N77-10493
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[NASA-CASE-XLE-00170] c15 N70-36412
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alkaline batteries
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alkaline batteries
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SEQUENCING

Synchronous counter design incorporating
cascaded binary stages driven by previous
stages and inputs through NAND gates
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Pulse duration control device for driving slow
response time loads in selected sequence
including switching and delay circuits and
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Digital function generator for generating any
arbitrary single valued function
[NASA-CASE-NPO-11104] c08 N72-22165

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sequence, with two-bit shift register for each
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generating pseudonoise linear recurring binary
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shift register responsive to clock pulses
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elements and minimized logic circuit complexity
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generating sine/cosine functions
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 high oxygen environments
 [NASA-CASE-HFS-20486-2] c27 N74-17283
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 of CO₂ and moisture without special heat
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 [NASA-CASE-HSC-14771-1] c54 N77-32722

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 satellite time division multiplex system
 [NASA-CASE-XGS-05918] c07 N69-39974
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 pseudo-noise synchronization code modulated
 with digital data into single channel for
 spacecraft communication
 [NASA-CASE-XMP-00911] c08 N70-41961
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 tracking satellites and receiving radio signal
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 [NASA-CASE-XGS-08679] c10 N71-21473
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 spacecraft
 [NASA-CASE-XLA-03114] c09 N71-22888
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 [NASA-CASE-XKS-09340] c07 N71-24614
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 obtaining synchronization in data
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[NASA-CASE-GSC-11428-1] c32 N74-20864
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[NASA-CASE-GSC-11924-1] c33 N76-27472
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[NASA-CASE-NPO-14362-1] c32 N80-16261
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[NASA-CASE-MPS-14741] c09 N70-20737
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[NASA-CASE-XMS-01620] c23 N71-15673
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[NASA-CASE-XNP-00920] c15 N71-15906
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[NASA-CASE-XGS-00783] c30 N71-17788
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[NASA-CASE-XLA-02050] c31 N71-22968
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[NASA-CASE-MSC-13047-1] c31 N71-25434
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[NASA-CASE-NPO-10556] c18 N71-27185
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[NASA-CASE-MSC-12372-1] c31 N72-25842
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[NASA-CASE-MPS-20922-1] c18 N74-22136
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[NASA-CASE-XGS-00260] c31 N70-37924
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[NASA-CASE-NHP-04161] c14 N71-15599
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[NASA-CASE-NHP-06892] c09 N71-24805
Optical control system for automatic speed regulation of electric driven motor vehicle
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[NASA-CASE-NPS-20645-1] c37 N74-23070
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Guidance analyzer having suspended spacecraft
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[NASA-CASE-XNP-09572] c14 N71-15621

Plastic sphere for radar tracking and calibration
[NASA-CASE-XLA-11154] c07 N72-21117

Method and apparatus for producing concentric
hollow spheres
[NASA-CASE-NPO-14596-1] c31 N79-24197

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Hollow spherical electrode for shielding
dielectric junction between high voltage
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[NASA-CASE-XLE-03778] c09 N69-21542

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of sphere
[NASA-CASE-XLA-06683] c14 N72-28436

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Gauge for measuring quantity of liquid in
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[NASA-CASE-XHS-06236] c14 N71-21007

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Electrical device for developing converging
spherical shock waves
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A logic-controlled occlusive cuff system
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heat transfer and high temperature problems
inherent in physical spikes
[NASA-CASE-XGS-01143] c31 N71-15647

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Nutation damper for use on spinning body
[NASA-CASE-GSC-11205-1] c15 N73-25513

Stabilization of He2(a 3 Sigma u+ molecules in
liquid helium by optical pumping for vacuum UV
laser 6
[NASA-CASE-NPO-13993-1] c72 N79-13826

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structure with method of compensating for
image or satellite rotation
[NASA-CASE-XGS-02401] c14 N69-27485

Bolt-latch mechanism for releasing despin
weights from space vehicle
[NASA-CASE-XLA-00679] c15 N70-38601

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spin rate of space vehicle
[NASA-CASE-XGS-00619] c30 N70-40016

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[NASA-CASE-XLA-02132] c31 N71-10582

Flexible turnstile antenna system for reducing
nutation in spin-oriented satellites
[NASA-CASE-XNP-00442] c31 N71-10747

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vehicles by using rate gyroscope and angular
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[NASA-CASE-XLA-01989] c21 N70-34295

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final stage space vehicles, using horizon
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[NASA-CASE-XLA-00281] c21 N70-36943

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[NASA-CASE-XGS-03431] c21 N71-15642

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satellite in polar orbit
[NASA-CASE-XGS-05579] c31 N71-15676

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gyro controlled jet reaction system for launch
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[NASA-CASE-XLA-01339] c31 N71-15692

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[NASA-CASE-GSC-11479-1] c35 N74-28097

Deployable flexible ventral fins for use as an
emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c08 N74-30421

Active nutation controller
[NASA-CASE-GSC-12273-1] c35 N80-21719

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[NASA-CASE-MSC-16270-1] c37 N78-27423

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Spine immobilization method and apparatus ---
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[NASA-CASE-MSC-18532-1] c32 N80-29543

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Spiral groove seal --- for hydraulic rotating
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high altitude space travel
[NASA-CASE-IAR-01547] c05 N69-21473

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[NASA-CASE-MSC-19546-1] c37 N77-25536

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capability of supporting immobilized person in
vertical position for removal from vehicle
hatch to exterior also useful as splint
stretcher
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aircraft spoiler movements through dual input
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[NASA-CASE-XNP-00392] c15 N70-34814

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Electric resistance spot welding and brazing for
producing metal bonds with superior mechanical
and structural characteristics
[NASA-CASE-LAR-11072-1] c15 N73-20535

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[NASA-CASE-XNP-04592-1] c20 N79-21125

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- [NASA-CASE-LAR-10682-1] c02 N73-26004
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- [NASA-CASE-XMF-08523] c31 N71-20396
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[NASA-CASE-FRC-10113-1] c33 N80-26599

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[NASA-CASE-XNP-00663] c08 N71-18752

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[NASA-CASE-XLE-01481] c14 N71-10781

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Liquid metal slip ring --- aerospace environments
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[NASA-CASE-MFS-21108-1] c34 N74-27861

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[NASA-CASE-XLE-00785] c33 N71-16104

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[NASA-CASE-GSC-10361-1] c18 N72-23581

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[NASA-CASE-FRC-10046] c10 N71-18722

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[NASA-CASE-GSC-11446-1] c33 N74-20860

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[NASA-CASE-MSC-14939-1] c32 N79-11264

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[NASA-CASE-XNP-00234] c28 N70-38645

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[NASA-CASE-XNP-06510] c14 N71-23797

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[NASA-CASE-ARC-10160-1] c23 N72-27728

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[NASA-CASE-XNP-01749] c27 N70-41897
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[NASA-CASE-XNP-09763] c14 N71-20461
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[NASA-CASE-LAR-10076-1] c05 N73-20137
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[NASA-CASE-NPO-10694] c09 N72-20200

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[NASA-CASE-LEW-12989-1] c37 N80-12414

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[NASA-CASE-NPO-13613-1] c37 N76-29590
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[NASA-CASE-NPO-14221-1] c37 N78-25431
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[NASA-CASE-NPO-14384-1] c37 N80-10494

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[NASA-CASE-XGS-02631] c03 N71-23006
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[NASA-CASE-XNP-04758] c03 N71-24605
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[NASA-CASE-LAR-10373-1] c18 N71-26155
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[NASA-CASE-XER-07896-2] c23 N72-22673

Fixture for supporting articles during vibration tests comprising integral annular unit
[NASA-CASE-HFS-20523] c14 N72-27412

Design and development of test stand system for supporting test items in vacuum chamber
[NASA-CASE-HFS-21362] c11 N73-20267

Collapsible support for antenna reflector applied to installation of spacecraft antennas
[NASA-CASE-NPO-11751] c07 N73-24176

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c44 N74-19692

Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-HFS-21680-1] c18 N74-27397

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[NASA-CASE-GSC-12082-2] c52 N77-27694

Variable contour securing system
[NASA-CASE-HSC-16270-1] c37 N78-27423

Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c26 N80-28492

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Electronic background suppression field scanning sensor for detecting point source targets
[NASA-CASE-XGS-05211] c07 N69-39980

SURFACE ACOUSTIC WAVE DEVICES

Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c71 N77-26919

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Surface defect detection by reflected microwave radiation pattern
[NASA-CASE-ARC-10009-1] c15 N71-17822

Method and device for detection of surface discontinuities or defects
[NASA-CASE-HSC-14187-1] c35 N74-32879

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Metallic film diffusion into metal or ceramic surfaces for boundary lubrication in aerospace environments
[NASA-CASE-XLE-01765] c18 N71-10772

SURFACE FINISHING

Development of procedure for producing thin transparent films of zinc oxide on transparent refractory substrate
[NASA-CASE-FRC-10019] c15 N73-12487

Device and method for determining X ray reflection efficiency, scattering properties, and surface finish of optical surfaces
[NASA-CASE-HFS-20243] c23 N73-13662

Surface finishing --- for aircraft wings
[NASA-CASE-HSC-12631-1] c24 N77-28225

Surface finishing --- adhesive bonding of plastic film to metal airfoil surfaces
[NASA-CASE-HSC-12631-3] c26 N79-21183

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c27 N80-24437

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Electrodes having array of small surfaces for field ionization
[NASA-CASE-ERC-10013] c09 N71-26678

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[NASA-CASE-ERC-10325] c15 N72-25457

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[NASA-CASE-XGS-02011] c15 N71-20739

Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c24 N74-19769

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[NASA-CASE-XHS-03537] c15 N69-21471

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[NASA-CASE-LAR-10439-1] c33 N73-27796

Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c34 N74-15652

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[NASA-CASE-NPO-11861-1] c36 N74-20009

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[NASA-CASE-LAR-11069-1] c35 N75-12272

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[NASA-CASE-NPO-11103-1] c35 N77-27367

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[NASA-CASE-LAR-11869-1] c74 N78-27904

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[NASA-CASE-LAR-11690-1] c35 N80-14371

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[NASA-CASE-INP-08835-1] c37 N80-14395

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SURFACE ROUGHNESS

Roughness detector for recording surface pattern of irregularities
[NASA-CASE-XLA-00203] c14 N70-34161

Optical apparatus for visual detection of roundness and regularity of cone surfaces
[NASA-CASE-XNP-00462] c14 N70-34298

Describing device for surveying contour of surface using X-Y plotter and traveling transducer
[NASA-CASE-XLA-08646] c14 N71-17586

Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c35 N79-10391

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Aerodynamically stable meteorological balloon using surface roughness effect
[NASA-CASE-XNP-04163] c02 N71-23007

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[NASA-CASE-NPO-11210] c11 N72-20244

Self-propelled vehicle with wheel, track laying, and walking capability for exploratory exploration
[NASA-CASE-NPO-11366] c11 N73-26238

Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c36 N74-15145

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[NASA-CASE-NPO-13217-1] c32 N75-26194

Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c37 N79-10420

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[NASA-CASE-XLA-10772] c07 N71-28980

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[NASA-CASE-XNP-00389] c31 N70-34176

Kinetic and static friction force measurement between magnetic tape and magnetic head surfaces
[NASA-CASE-XNP-08680] c14 N71-22995

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[NASA-CASE-FRC-10051-1] c35 N74-13129

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[NASA-CASE-NPO-13772-1] c35 N78-10429

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[NASA-CASE-NPO-13904-1] c25 N79-11152

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[NASA-CASE-LEW-12668-1] c52 N78-14773

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[NASA-CASE-LEW-12955-1] c52 N80-14684

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[NASA-CASE-XLA-08507] c09 N69-39984

Turn on current transient limiter for controlling peak current flow in high capacity load
[NASA-CASE-GSC-10413] c10 N71-26531

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[NASA-CASE-LEW-11669-1] c05 N73-27062

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[NASA-CASE-LEW-12051-1] c52 N75-33640

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[NASA-CASE-XLA-00118] c05 N70-33285

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[NASA-CASE-XMS-00864] c05 N70-36493

Pliable frame for sunglasses in emergency survival kits
[NASA-CASE-XMS-06064] c05 N71-23096

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instruments
[NASA-CASE-XNP-01567] c15 N70-41310

Cable suspension and inclined walkway system for simulating reduced or zero gravity environments
[NASA-CASE-XLA-01787] c11 N71-16028

Suspended mass oscillation damper based on impact energy absorption for damping wind induced oscillations of tall stacks, antennas, and umbilical towers
[NASA-CASE-LAR-10193-1] c15 N71-27146

Method and apparatus for shaping and enhancing acoustical levitation forces --- ultrasonic transducer for generating a radiation pressure field
[NASA-CASE-MPS-25050-1] c71 N79-29956

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[NASA-CASE-NPO-14395-1] c37 N79-12446

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[NASA-CASE-XLE-00020] c15 N70-33226

Transpirationally cooled heat ablation system for interplanetary spacecraft reentry shielding
[NASA-CASE-XMS-02677] c31 N70-42075

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[NASA-CASE-LEW-11118-1] c20 N74-32919

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[NASA-CASE-XMS-03542] c09 N71-28926

SWEEP EFFECT

Supersonic or hypersonic vehicle control system comprising elevons with hinge line sweep and free of adverse aerodynamic cross coupling
[NASA-CASE-XLA-08967] c02 N71-27088

Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ABC-11106-1] c05 N80-14107

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[NASA-CASE-NPO-13909-1] c33 N78-25319

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[NASA-CASE-ABC-10304-1] c18 N73-26572

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[NASA-CASE-XLA-04451] c02 N71-12243

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Slosh and swirl alleviator for liquid propellant tanks during transport and flight
[NASA-CASE-XLA-05749] c15 N71-19569

Swirl can, full-annulus combustion chambers for high performance gas turbine engines
[NASA-CASE-LEW-11326-1] c23 N73-30665

SWITCHES

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[NASA-CASE-XGS-00473] c03 N70-38713

Digital memory system with multiple switch cores for driving each word location
[NASA-CASE-XNP-01466] c10 N71-26434

Radio frequency controlled solid state switch
[NASA-CASE-ABC-10136-1] c09 N72-22202

High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c33 N80-18285

SWITCHING CIRCUITS

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[NASA-CASE-XNP-09228] c09 N69-27500

Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASE-XNP-02713] c10 N69-39888

Selective gold diffusion on monolithic silicon chips for switching and nonswitching amplifier devices and circuits and linear and digital logic circuits
[NASA-CASE-ERC-10072] c09 N70-11148

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[NASA-CASE-INP-00517] c03 N70-34157
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 [NASA-CASE-XAC-00060] c09 N70-39915
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 Using electron beam switching for brushless
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 [NASA-CASE-XGS-01451] c09 N71-10677
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 [NASA-CASE-XMS-00945] c09 N71-10798
 Silicon controlled rectifier pulse gate
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 negative transient voltages
 [NASA-CASE-XLA-07497] c09 N71-12514
 Describing magnetic core current switching
 device for steering bipolar current pulses to
 memory units
 [NASA-CASE-NPO-10201] c08 N71-18694
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 [NASA-CASE-XLA-07732] c08 N71-18751
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 [NASA-CASE-XGS-03501] c09 N71-20864
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 mounted beside eye
 [NASA-CASE-INP-03934] c09 N71-22985
 Complementary regenerative transistorized switch
 circuit employing positive and negative feedback
 [NASA-CASE-XGS-02751] c09 N71-23015
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 application in selection matrices for digital
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 [NASA-CASE-INP-01318] c10 N71-23033
 Electric circuit for producing high current
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 [NASA-CASE-XMS-04919] c09 N71-23270
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 [NASA-CASE-INP-00952] c10 N71-23271
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 [NASA-CASE-XMS-09352] c09 N71-23316
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 [NASA-CASE-INP-06507] c09 N71-23548
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 semiconductor switch for faulty contact
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 [NASA-CASE-INP-06505] c10 N71-24799
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 [NASA-CASE-XGS-06226] c10 N71-25950
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 steering switch with inductively coupled
 magnetic cores
 [NASA-CASE-INP-08567] c09 N71-26000
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 response time loads in selected sequence
 including switching and delay circuits and
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 [NASA-CASE-XGS-04224] c10 N71-26418
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 [NASA-CASE-GSC-10413] c10 N71-26531
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 absolute temperature measuring radiometer for
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 [NASA-CASE-INP-01012] c08 N71-28925
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 [NASA-CASE-NFS-20935] c09 N71-34212
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 [NASA-CASE-NPO-11253] c09 N72-17157
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 circuit to provide compensation for
 environmental changes
 [NASA-CASE-GSC-10669-1] c03 N72-20031
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 fluid flow velocity through conduits of
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 [NASA-CASE-NPO-10722] c09 N72-20199
 Switching type voltage regulator with relatively
 simple circuit arrangement
 [NASA-CASE-LEW-11005-1] c09 N72-21243
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 [NASA-CASE-NPO-11333] c08 N72-22162
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 [NASA-CASE-LEW-10433-1] c09 N72-22197
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 [NASA-CASE-LEW-10387] c09 N72-22201
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 to pressure decrease after pressure increase
 [NASA-CASE-LAR-10137-1] c09 N72-22204
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 tunnel diodes
 [NASA-CASE-GSC-10878-1] c10 N72-22236
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 tube beam with fast rise time for output signal
 [NASA-CASE-KSC-10647-1] c10 N72-31273
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 input signals to common output channel
 [NASA-CASE-KSC-10003] c10 N73-13235
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 [NASA-CASE-NPO-10817-1] c08 N73-30135
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 display devices to be adapted for use in man
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 [NASA-CASE-MSC-13746-1] c10 N73-32143
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 [NASA-CASE-NPO-13081-1] c33 N74-22814
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 [NASA-CASE-KSC-10782-1] c33 N75-30431
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 [NASA-CASE-NPO-13422-1] c60 N76-14818
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 [NASA-CASE-LEW-12444-1] c33 N77-28385
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 [NASA-CASE-NFS-22880-2] c33 N77-31407
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 [NASA-CASE-FRC-10090-1] c33 N78-18308
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 inverters --- preventing system failure during
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 [NASA-CASE-NPO-14000-1] c33 N79-24254
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 for protecting switching transistors from peak
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 [NASA-CASE-NPO-14316-1] c33 N79-26312
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 [NASA-CASE-MSC-16697-1] c33 N79-28415
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 [NASA-CASE-LEW-12586-1] c44 N80-14472
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 Earth orbiting satellites having spherical
 multi-element antenna arrays
 [NASA-CASE-GSC-12420-1] c33 N80-21670
 Control means for a solid state crossbar switch
 [NASA-CASE-NPO-15066-1] c33 N80-33679
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minimum hand and eye movement by operator
[NASA-CASE-XAC-03777] c10 N71-15909

SWIVELS
Swivel support for gas bearing for position adjustment between ball and supporting cup
[NASA-CASE-XNP-07808] c15 N71-23812

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[NASA-CASE-XGS-05918] c07 N69-39974
Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Pulse generator for synchronizing or resetting electronic signals without requiring separate external source
[NASA-CASE-XGS-03632] c09 N71-23311
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
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[NASA-CASE-NPO-10214] c10 N71-26577

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[NASA-CASE-XNP-00777] c10 N71-19469
Phase locked phase modulation system with voltage controlled oscillator for final phase linearity
[NASA-CASE-XNP-05382] c10 N71-23544
Automatic frequency control device for providing frequency reference for voltage controlled oscillator
[NASA-CASE-KSC-10393] c09 N72-21247

SYNCHRONIZERS
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[NASA-CASE-XNS-05605-1] c10 N71-19468
Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Digital synchronizer for extracting binary data in receiver of PSK/ECH communication system
[NASA-CASE-NPO-10851] c07 N71-24613
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[NASA-CASE-KSC-10002] c10 N71-25865
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[NASA-CASE-MSC-12462-1] c32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c32 N74-20810
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[NASA-CASE-NPO-13125-1] c33 N75-19519
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c17 N76-22245
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[NASA-CASE-GSC-12430-1] c32 N80-20453

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Synchronous dc direct-drive system comprising multiple-loop hybrid control system controlling load directly connected to actuator
[NASA-CASE-GSC-10065-1] c10 N71-27136
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[NASA-CASE-NPO-13374-1] c33 N75-19524

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[NASA-CASE-GSC-10087-2] c21 N71-13958
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[NASA-CASE-XGS-01022] c07 N71-16088
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[NASA-CASE-GSC-10087-1] c02 N71-19287

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[NASA-CASE-GSC-10553-1] c07 N71-19854
Satellite network synchronization system with multiple access to multiplex repeater
[NASA-CASE-GSC-10390-1] c07 N72-11149
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[NASA-CASE-GSC-11211-1] c03 N72-25020
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[NASA-CASE-GSC-12032-2] c35 N76-19408
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[NASA-CASE-GSC-12150-1] c32 N79-11265
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[NASA-CASE-NPO-14480-1] c32 N80-20448

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[NASA-CASE-XNP-08651] c06 N71-11236
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[NASA-CASE-XNP-10753] c06 N71-11237
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[NASA-CASE-XLA-08802] c06 N71-11238
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[NASA-CASE-LBW-11325-1] c06 N73-27980
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[NASA-CASE-ARC-11097-1] c23 N78-22154
Synthesis of multifunction triaryltrifluoroethanes
[NASA-CASE-ARC-11097-2] c23 N78-22155

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[NASA-CASE-ARC-113261-1] c25 N80-31490
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[NASA-CASE-NPO-13899-1] c27 N80-32515

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[NASA-CASE-XGS-02317] c09 N71-23525

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[NASA-CASE-NPO-13862-1] c35 N79-10391
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[NASA-CASE-NPO-14019-1] c32 N79-14268
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c32 N79-14278
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c32 N79-19195
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c32 N80-32607

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[NASA-CASE-NPO-10123] c15 N71-24835
Structure of fabric layers for micrometeoroid protection garment with capability for eliminating heat shorts for use in manufacturing space suits
[NASA-CASE-MSC-12109] c18 N71-26285
Flexible barrier membrane comprising porous substrate and incorporating liquid gallium or indium metal used as sealant barriers for spacecraft walls and pumping liquid propellants
[NASA-CASE-XNP-08881] c17 N71-28747
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[NASA-CASE-NPO-13948-1] c35 N78-25391
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[NASA-CASE-MSC-14331-3] c27 N78-32262

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[NASA-CASE-NPO-14315-1] c27 N80-10361
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[NASA-CASE-NPO-15071-1] c44 N80-24747

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[NASA-CASE-XNP-06508] c18 N69-39895
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[NASA-CASE-ARC-11321-1] c27 N80-31551

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- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-NPS-23513-1] c74 N79-11865

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- Tape recorder designed for low power consumption and resistance to operational failure under high stress conditions
[NASA-CASE-XGS-08259] c14 N71-23698
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[NASA-CASE-MSC-12531-1] c35 N75-30504

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- Analog to digital converter analyzing system
[NASA-CASE-NPO-10560] c08 N72-22166

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- Design of magnetohydrodynamic induction machine with end poles which produce compensating magnetic fields
[NASA-CASE-XNP-07481] c25 N69-21929
Hovering type flying vehicle design and principle mechanisms for manned or unmanned use
[NASA-CASE-MSC-12111-1] c02 N71-11039
Solar battery with interconnecting means for plural cells
[NASA-CASE-XNP-06506] c03 N71-11050
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[NASA-CASE-XMS-04935] c05 N71-11190
Design and operation of multi-feed cone Cassegrain antenna
[NASA-CASE-NPO-10539] c07 N71-11285
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[NASA-CASE-XLA-02079] c12 N71-16894
Alarm system design for monitoring one or more relay circuits
[NASA-CASE-XMS-10984-1] c10 N71-19417
Wide range analog data compression system
[NASA-CASE-XGS-02612] c08 N71-19435
Space suit body heat exchanger design composed of thermal conductance yarn and liquid coolant loops
[NASA-CASE-XMS-09571] c05 N71-19439
Silicon radiation detecting probe design for in vivo biomedical use
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[NASA-CASE-ARC-10132-1] c09 N71-24597
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[NASA-CASE-XNP-06617] c09 N71-24843
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Noninterruptable digital counter circuit design with display device for pulse frequency modulation
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[NASA-CASE-NPS-20395] c15 N71-24903
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[NASA-CASE-XMS-10660-1] c15 N71-25975
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[NASA-CASE-XKS-05932] c09 N71-26787
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[NASA-CASE-NPS-20240] c14 N71-26788
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[NASA-CASE-NPO-11021] c03 N72-20032

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[NASA-CASE-HQN-10439] c21 N72-21624

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Development of computer program for estimating reliability of self-repair and fault-tolerant systems with respect to selected system and mission parameters
[NASA-CASE-NPO-13086-1] c15 N73-12495

Design and development of active control system for air cushion vehicle to reduce or eliminate effects of excessive vertical vibratory acceleration
[NASA-CASE-LAR-10531-1] c02 N73-13023

Measurement system for physical quantity represented by or converted to variable frequency signal
[NASA-CASE-MPS-20658-1] c14 N73-30386

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[NASA-CASE-NPO-13147-1] c36 N77-25502

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[NASA-CASE-NPO-13813-1] c44 N78-31526

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Brushless dc tachometer design with Hall effect crystals and output voltage magnitude proportional to rotor speed
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Arc electrode of graphite with tantalum ball tip
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Endless loop tape transport mechanism for driving and tensioning recording medium in magnetic tape recorder
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[NASA-CASE-IGS-00373] c23 N71-15978

Tape guidance system for multichannel digital recording system
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of monolithic semiconductor mosaic sensor and
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[NASA-CASE-XLB-00703] c15 N71-15967
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[NASA-CASE-MPS-14259] c15 N71-19213
- Temperature sensitive magnetometer with pulsating thermally cycled magnetic core
[NASA-CASE-XAC-03740] c14 N71-26135
- Development of system with electrical properties which vary with changes in temperature for use with feedback loop in operational amplifier circuit
[NASA-CASE-HSC-13276-1] c14 N71-27058
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[NASA-CASE-XAC-00812] c14 N71-15598
- Development of temperature compensated light source with components and circuitry for maintaining luminous intensity independent of temperature variations
[NASA-CASE-ARC-10467-1] c09 N73-14214
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[NASA-CASE-LAR-10489-1] c31 N74-18124
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[NASA-CASE-XLA-00062] c14 N70-33254
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[NASA-CASE-XGS-01052] c14 N71-15992
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[NASA-CASE-XNP-01659] c14 N71-23039
- Black body cavity radiometer with thermal resistance wire bridge circuit
[NASA-CASE-XNP-08961] c14 N71-24809
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[NASA-CASE-LEW-10281-1] c14 N72-17327
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[NASA-CASE-XLB-05230] c14 N72-27410
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[NASA-CASE-NPO-10764-1] c14 N73-14428
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[NASA-CASE-NPO-13462-1] c35 N76-24524
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heat flux inflow to aircraft skin

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[NASA-CASE-XLE-00228] c17 N70-38490

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guides for exerting multiple forces on test
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[NASA-CASE-XLE-03157] c28 N71-24736
- Fuel and oxidizer injection head for thrust chamber of reaction engine
[NASA-CASE-NPO-10046] c28 N72-17843
- Continuous gas flow control by fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c28 N72-22769
- Radial magnetic field for ion thruster
[NASA-CASE-LEW-10770-1] c28 N72-22770
- Thermal flux transfer system for maintaining thrust chamber of operative reaction motor at given temperatures
[NASA-CASE-NPO-12070-1] c28 N73-32606
- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c34 N79-13288
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c34 N79-13289
- THRUST CONTROL**
- Electromechanical actuator and its use in rocket thrust control valve
[NASA-CASE-XNP-05975] c15 N69-23185
- Solid propellant rocket vehicle thrust control method and apparatus
[NASA-CASE-XNP-00217] c28 N70-38181
- Thrust and attitude control apparatus using jet nozzle in movable canard surface or fin configuration
[NASA-CASE-XLE-03583] c31 N71-17629
- Detonation reaction engine comprising outer housing enclosing pair of inner walls for continuous flow
[NASA-CASE-XNP-06926] c28 N71-22983
- Low mass ionizing device for use in electric thrust spacecraft engines
[NASA-CASE-XNP-01954] c28 N71-28850
- Heated porous plug microthruster for spacecraft reaction jet controlled systems such as fuel flow regulation, propellant disassociation, and heat transfer augmentation
[NASA-CASE-GSC-10640-1] c28 N72-18766
- Multi-purpose wind tunnel reaction control model block
[NASA-CASE-HSC-19706-1] c09 N78-31129
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XNP-05964-1] c20 N79-21124
- THRUST LOADS**
- Thrust measurement
[NASA-CASE-XHS-05731] c35 N75-29382
- THRUST MEASUREMENT**
- Dynamometer measuring microforce thrust produced by ion engine
[NASA-CASE-XLE-00702] c14 N70-40203
- Development of thrust dynamometer for measuring performance of jet and rocket engines
[NASA-CASE-XLE-05260] c14 N71-20429
- Development of temperature compensated thrust measuring gage for measuring forces as function of time in environment with varying temperature
[NASA-CASE-XGS-02319] c14 N71-22965
- Micro-pound extended range thrust stand for small rocket engines
[NASA-CASE-GSC-10710-1] c28 N71-27094
- THRUST VECTOR CONTROL**
- Thrust vector control by secondary injection of fluid into rocket nozzle flow field to separate exhaust flow
[NASA-CASE-XLE-00208] c28 N70-34294
- High velocity guidance and spin stabilization gyro controlled jet reaction system for launch vehicle payloads
[NASA-CASE-XLA-01339] c31 N71-15692
- Ion beam deflector system for electronic thrust vector control for ion propulsion yaw, pitch, and roll forces
[NASA-CASE-LEW-10689-1] c28 N71-26173
- Tertiary flow injection system for thrust vectoring of propulsive nozzle flow
[NASA-CASE-NPS-20831] c28 N71-29153
- Development of thrust control system for application to control of aircraft and spacecraft
- [NASA-CASE-HSC-13397-1] c21 N72-25595
Development of vortex fluid amplifier for throttling rocket exhaust
[NASA-CASE-LEW-10374-1] c28 N73-13773
- System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-NPS-21311-1] c20 N76-21275
- THRUST-WEIGHT RATIO**
- Launch pad missile release system with bending moment change rate reduction in thrust distribution structure at liftoff
[NASA-CASE-XNP-03198] c30 N70-40353
- TILES**
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-HSC-14182-1] c27 N76-14264
- Diced tile thermal protection for spacecraft
[NASA-CASE-HSC-16366-1] c24 N79-23142
- TILT WING AIRCRAFT**
- Free wing assembly for an aircraft
[NASA-CASE-PRC-10092-1] c05 N79-12061
- TIME CONSTANT**
- Variable time constant, wide frequency range smoothing network for noise removal from pulse chains
[NASA-CASE-XGS-01983] c10 N70-41964
- TIME DISCRIMINATION**
- Extra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit
[NASA-CASE-XGS-00381] c09 N70-34819
- TIME DIVISION MULTIPLEXING**
- Synchronizing apparatus for multi-access satellite time division multiplex system
[NASA-CASE-XGS-05918] c07 N69-39974
- Time division multiplexer with magnetic latching relays
[NASA-CASE-XNP-00431] c09 N70-38998
- Data processor having multiple sections activated at different times by selective power coupling to sections
[NASA-CASE-XGS-04767] c08 N71-12494
- Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
- Time division relay synchronizer with master sync pulse for activating binary counter to produce signal identifying time slot for station
[NASA-CASE-GSC-10373-1] c07 N71-19773
- Sampling circuit for signal processing in multiplex transmission by Fourier analysis
[NASA-CASE-NPO-10388] c07 N71-24622
- Time division multiplexed telemetry transmitting system controlled by programmed memory
[NASA-CASE-GSC-10131-1] c07 N71-24624
- TIME FUNCTIONS**
- Cathode ray oscilloscope for analyzing electrical waveforms representing amplitude distribution of time function
[NASA-CASE-XNP-01383] c09 N71-10659
- TIME LAG**
- Closed loop radio communication ranging system to determine distance between moving airborne vehicle and fixed ground station
[NASA-CASE-XNP-01501] c21 N70-41930
- Minimum time delay unit for conventional time multiplexed data compression channels
[NASA-CASE-XNP-08832] c08 N71-12506
- Apparatus for estimating amplitude and sign of phase difference or time lag between two signals
[NASA-CASE-NPO-11203] c10 N72-20224
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c32 N77-31350
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c33 N79-13262
- TIME MEASUREMENT**
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c33 N79-10338
- TIME MEASURING INSTRUMENTS**
- Mechanism for measuring nanosecond time differences between luminous events using streak camera
[NASA-CASE-XLA-01987] c23 N71-23976
- TIME OF FLIGHT SPECTROMETERS**
- Design and characteristics of time of flight mass spectrometer to measure or analyze gases

TIME SERIES ANALYSIS

at low pressures and time of flight of single gas molecule
[NASA-CASE-XNP-01056] c14 N71-23041

TIME SERIES ANALYSIS
Device for performing statistical time-series analysis of complex electrical signal waveforms
[NASA-CASE-MS-C-12428-1] c10 N73-25240

TIME SHARING
Integrated time shared instrumentation display for aerospace vehicle simulators
[NASA-CASE-XLA-01952] c08 N71-12507

TIME SIGNALS
Monitoring system for signal amplitude ranges over predetermined time interval
[NASA-CASE-XMS-04061-1] c09 N69-39885
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Time synchronization system for synchronizing clocks at remote locations with master clock using moon reflected coded signals
[NASA-CASE-NPO-10143] c10 N71-26326
Circuit for measuring wide range of pulse rates by utilizing high capacity counter
[NASA-CASE-XNP-06234] c10 N71-27137
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c33 N75-19519
Precise RF timing signal distribution to remote stations
[NASA-CASE-NPO-14749-1] c74 N79-34013

TIMING DEVICES
Design and development of synchronous servo loop control system
[NASA-CASE-XNP-03744] c10 N71-20448
Development of method for synchronizing clocks at several ground stations based on signals received from spacecraft or satellites
[NASA-CASE-XNP-08875] c10 N71-23099
Development and characteristics of resettable monostable pulse generator with charge rundown-timing circuit
[NASA-CASE-GSC-11139] c09 N71-27016
Data acquisition and processing system with buffer storage and timing device for magnetic tape recording of PCM data and timing information
[NASA-CASE-NPO-12107] c08 N71-27255
High speed photo-optical time recorder for indicating time at exposure of each frame of high speed movie camera film
[NASA-CASE-KSC-10294] c14 N72-18411

TIRES
Temperature sensor warning system for pneumatic tires of aircraft and ground vehicles
[NASA-CASE-XLA-01926] c14 N71-15620
Resilient wheel design with woven wire tire and abrasive treads for lunar surface vehicles
[NASA-CASE-NPS-13929] c15 N71-27091

TISSUES (BIOLOGY)
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c35 N75-25123
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MS-C-14276-1] c52 N77-14737
System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c51 N79-10694
Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c52 N79-14751
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c52 N79-25737
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c52 N79-27836

TITANATES
Vacuum preparation of zinc titanate pigment resistant to loss of reflective properties
[NASA-CASE-NPS-13532] c18 N72-17532

TITANIUM
Joining aluminum to stainless steel by bonding aluminum coatings onto titanium coated stainless steel and brazing aluminum to aluminum/titanium coated steel
[NASA-CASE-NPS-07369] c15 N71-20443
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c37 N77-11397

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Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c44 N80-24741

TITANIUM ALLOYS
Method to prevent stress corrosion cracking in titanium alloys
[NASA-CASE-NPO-10271] c17 N71-16393
Chemical spot tests for identification of titanium and titanium alloys used in aerospace vehicles
[NASA-CASE-LAR-10539-1] c17 N73-12547

TITANIUM CARBIDES
Improved refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c26 N80-14232

TITANIUM OXIDES
Method of preparing zinc orthotitanate pigment
[NASA-CASE-NPS-23345-1] c27 N77-30237

TOLERANCES (MECHANICS)
Mechanism for restraining universal joints to prevent separation while allowing bending, angulation, and lateral offset in any position about axis
[NASA-CASE-XNP-02278] c15 N71-28951

TOMOGRAPHY
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c31 N80-32584

TOOLS
Tool attachment for spreading or moving away loose elements from terminal posts during winding of filamentary elements
[NASA-CASE-XNP-02107] c15 N71-10809
Development of adjustable attitude guide block for setting pins perpendicular to irregular convex work surface
[NASA-CASE-XLA-07911] c15 N71-15571
Hand tool for forming dimples and nipples on end portion of tubes
[NASA-CASE-XMS-06876] c15 N71-21536
Tool for mounting and removing studs with adhesive coated head portion
[NASA-CASE-NPS-20299] c15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-NPS-21485-1] c37 N74-25968
Stator rotor tools
[NASA-CASE-MS-C-16000-1] c37 N78-24544
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c37 N80-20589
Open ended ratchet type tubing cutter
[NASA-CASE-MS-C-18538-1] c37 N80-22703

TOOTH DISEASES
Process for preparing calcium phosphate salts for tooth repair
[NASA-CASE-FRC-10338] c04 N72-33072

TORCHES
Computer controlled apparatus for maintaining welding torch angle and velocity during seam tracking
[NASA-CASE-XNP-03287] c15 N71-15607
Development of electric weeding torch with casing on one end to form inert gas shield
[NASA-CASE-XNP-02330] c15 N71-23798
Computerized system for translating a torch head
[NASA-CASE-NPS-23620-1] c37 N79-10421

TOROIDS
Flux gate magnetometer with toroidal gating coil and solenoidal output coil for signal modulation or amplification
[NASA-CASE-XGS-01881] c09 N70-40123
Toroidal cell and battery --- energy storage for orbital space applications or power cells for electric vehicles
[NASA-CASE-LEW-12918-1] c44 N80-33857

TORQUE
Gearing system for eliminating backlash and filtering input torque fluctuations from high inertia load
[NASA-CASE-IGS-04227] c15 N71-21744
Coupling arrangement for isolating torque loads from axial, radial, and bending loads
[NASA-CASE-XLA-04897] c15 N72-22482
High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c37 N79-14383
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c71 N79-20827
Magnetic field control --- electromechanical torquing devices

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Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c54 N80-30043
- TORQUE MOTORS**
Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c09 N75-24758
- TORQUEMETERS**
Remote-reading torquemeter for use where high horsepower are transmitted at high rotative speeds
[NASA-CASE-XLE-00503] c14 N70-34818
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[NASA-CASE-XGS-01013] c14 N71-23725
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[NASA-CASE-MSC-12397-1] c05 N72-25119
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[NASA-CASE-ARC-11100-1] c54 N78-31736
- TOUCH**
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[NASA-CASE-MFS-20413] c15 N72-21463
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[NASA-CASE-MSC-13609-1] c05 N72-25122
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[NASA-CASE-MFS-16570-1] c05 N73-32013
- TOWERS**
Aerial capsule emergency separation device using jettisonable towers
[NASA-CASE-XLA-00115] c03 N70-33343
- TOXICITY AND SAFETY HAZARD**
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c37 N74-18123
- TOXICOLOGY**
System for continuous monitoring of exhalations, weighing, and cage cleaning for animal exposed to controlled atmosphere for toxic study
[NASA-CASE-XAC-05333] c11 N71-22875
- TRACE CONTAMINANTS**
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Heated tungsten filter for removing oxygen impurities from cesium
[NASA-CASE-XNP-04262-2] c17 N71-26773
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c33 N79-15245
- TRACE ELEMENTS**
Ion microprobe mass spectrometer with cooled electrode target for analyzing traces of fluids
[NASA-CASE-ERC-10014] c14 N71-28863
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c25 N76-22323
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[NASA-CASE-LAR-12046-1] c25 N78-15210
- TRACHEA**
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[NASA-CASE-ARC-11114-1] c52 N78-33717
- TRACKING (POSITION)**
Sensor consisting of photocells mounted on pyramidal base for improved pointing accuracy of planetary trackers
[NASA-CASE-XNP-04180] c07 N69-39736
Telespectrograph for analyzing upper atmosphere by tracking bodies reentering atmosphere at high velocities
[NASA-CASE-XLA-03273] c14 N71-18699
Laser beam projector for continuous, precise alignment between target, laser generator, and astronomical telescope during tracking
[NASA-CASE-NPO-11087] c23 N71-29125
Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c35 N77-20401
- System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c17 N78-17140
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c44 N79-14526
Solar tracking system --- with pointing control circuits
[NASA-CASE-MFS-23999-1] c44 N79-28667
- TRACKING FILTERS**
System for phase locking onto carrier frequency signal located within receiver bandpass
[NASA-CASE-XGS-04994] c09 N69-21543
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c33 N79-11313
PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c33 N79-18224
- TRACKING RADAR**
Electronic and mechanical scanning control system for monopulse tracking antenna
[NASA-CASE-XGS-05582] c07 N69-27460
Phase locked loop with sideband rejecting properties in continuous wave tracking radar
[NASA-CASE-XNP-02723] c07 N70-41680
Interferometric tuning acquisition and tracking radar antenna system
[NASA-CASE-XMS-09610] c07 N71-24625
Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c16 N72-13437
- TRACKING STATIONS**
Optical monitor panel consisting of translucent screen with test or meter information projected onto it from rear for application in control rooms of missile launching and tracking stations
[NASA-CASE-XKS-03509] c14 N71-23175
Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c32 N75-15854
- TRAFFIC CONTROL**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c66 N76-19888
- TRAILERS**
Improved low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c85 N80-33312
- TRAILING-EDGE FLAPS**
Double hinged flap for boundary layer control over trailing edges of wings
[NASA-CASE-XLA-01290] c02 N70-42016
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c07 N79-14097
- TRAINING SIMULATORS**
Low and zero gravity simulator for astronaut training
[NASA-CASE-MFS-10555] c11 N71-19494
Apparatus for training astronaut crews to perform on simulated lunar surface under conditions of lunar gravity
[NASA-CASE-XMS-04798] c11 N71-21474
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c09 N75-15662
- TRAJECTORY ANALYSIS**
Table structure and rotating magnet system simulating gravitational forces on spacecraft and displaying trajectories between Earth, Venus, and Mercury
[NASA-CASE-XNP-00708] c14 N70-35394
Planetary atmospheric investigation using split trajectory dual flyby mode
[NASA-CASE-XAC-08494] c30 N71-15990
- TRAJECTORY CONTROL**
Spacecraft trajectory correction propulsion system
[NASA-CASE-XNP-01104] c28 N70-39931
Development of technique for control of free flight rocket vehicles
[NASA-CASE-XLA-00937] c31 N71-17691
Attitude stabilizer for nonguided missile or vehicle with respect to trajectory
[NASA-CASE-ARC-10134] c30 N72-17873
- TRANSDUCERS**
Fabrication of pressure-telemetry transducers
[NASA-CASE-XNP-09752] c14 N69-21541
Bootstrap unloading circuits for sampling transducer voltage sources without drawing current
[NASA-CASE-XNP-09768] c09 N71-12516

- Transducer for measuring deflections from vibrating structures
[NASA-CASE-XIA-03135] c32 H71-16428
- Describing device for surveying contour of surface using X-Y plotter and traveling transducer
[NASA-CASE-XIA-08646] c14 H71-17586
- Rotary bead dropper and selector for testing micrometeorite transducers
[NASA-CASE-XGS-03304] c09 H71-22988
- Development and characteristics of self-calibrating displacement transducer for measuring magnitude and frequency of displacement of bodies
[NASA-CASE-XIA-00781] c09 H71-22999
- Transducer frame for use with extensometer to continuously monitor specimen sample
[NASA-CASE-XIA-10322] c15 H72-17452
- Split range transducer
[NASA-CASE-XIA-11189] c10 H72-20222
- Pulsed excitation voltage circuit for strain gage bridge transducers
[NASA-CASE-FRC-10036] c09 H72-22200
- Passive type, magnifying scratch gage, force transducer
[NASA-CASE-LAR-10496-1] c14 H72-22437
- Development of electronic detection system for remotely determining number and movement of enemy personnel
[NASA-CASE-ARC-10097-2] c07 H73-25160
- Acoustical transducer calibrating system including differential pressure activating device
[NASA-CASE-FRC-10060-1] c14 H73-27379
- Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c33 H74-17930
- LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c33 H74-26732
- Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c52 H74-27566
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c33 H75-19520
- Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c33 H75-31329
- Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c35 H75-33369
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 H76-19338
- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c38 H76-28563
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 H76-29895
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c35 H77-20410
- Photomechanical transducer --- using thin strips of photoabsorptive metal or polymeric film with strain gages
[NASA-CASE-NPO-14363-1] c76 H79-14908
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c52 H79-25737
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c44 H80-18552
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c52 H80-27072
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- Impedance transformation device for signal mixing
[NASA-CASE-XGS-01110] c07 H69-24334
- High impedance alternating current sensing transformer device between two bolometers for measuring insertion loss of test component
[NASA-CASE-INP-01193] c10 H71-16057
- Magnetic current regulator for saturable core transformer
[NASA-CASE-ERC-10075] c09 H71-24800
- Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASE-ERC-10125] c09 H71-24893
- Development and characteristics of electronically resettable fuse with saturable core current sensing transformer having two outside legs and center leg
[NASA-CASE-XGS-11177] c09 H71-27001
- Development and characteristics of voltage regulator for connection in series with alternating current source and load using three leg, two-window transformer
[NASA-CASE-ERC-10113] c09 H71-27053
- Radial heat flux transformer for use in heating and cooling processes
[NASA-CASE-NPO-10828] c33 H72-17948
- Current protection equipment for saturable core transformers
[NASA-CASE-ERC-10075-2] c09 H72-22196
- Fail-safe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c09 H72-25262
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c33 H74-17928
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c33 H77-14335
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c33 H78-17295
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c33 H79-18193
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c33 H79-24257
- Low current linearization of magnetic amplifier for dc transformer
[NASA-CASE-NPO-14617-1] c33 H79-26311
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c33 H79-26312
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c33 H79-28415
- TRANSIENT HEATING**
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c35 H77-14409
- TRANSIENT LOADS**
- Deployable cantilever support for deploying solar cell arrays aboard spacecraft and reducing transient loading
[NASA-CASE-NPO-10883] c31 H72-22874
- TRANSISTOR AMPLIFIERS**
- Overcurrent protecting circuit for push-pull transistor amplifiers
[NASA-CASE-MSC-12033-1] c09 H71-13531
- Dual mode solid state power switch
[NASA-CASE-MFS-22880-2] c33 H77-31407
- TRANSISTOR CIRCUITS**
- Low power drain transistor feedback circuit
[NASA-CASE-XGS-04999] c09 H69-24317
- Design of transistorized ring counter circuit with special steering and triggering circuits
[NASA-CASE-XGS-03095] c09 H69-27463
- RC transistor circuit to indicate each pulse of pulse train and occurrence of nth pulse
[NASA-CASE-INP-00906] c09 H70-41655
- Linear sawtooth voltage wave generator with transistor timing circuit having capacitor and zener diode feedback loops
[NASA-CASE-IMS-01315] c09 H70-41675
- Switching circuit with regeneratively connected transistors eliminating power consumption when not in use
[NASA-CASE-INP-02654] c10 H70-42032
- High voltage transistor circuit
[NASA-CASE-INP-06937] c09 H71-19516
- Complementary regenerative transistorized switch circuit employing positive and negative feedback
[NASA-CASE-XGS-02751] c09 H71-23015
- Inverter drive circuit for semiconductor switch
[NASA-CASE-LFW-10233] c10 H71-27126
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Aircraft indicator for pilot control of takeoff roll, climbout path and verticle flight path in poor visibility conditions
[NASA-CASE-XLA-00487] c14 N70-40157

VERTICAL LANDING
Vertically descending flight vehicle landing gear for rough terrain
[NASA-CASE-XMF-01174] c02 N70-41589

VERTICAL TAKEOFF AIRCRAFT
Mechanical stabilization system for VTOL aircraft
[NASA-CASE-XLA-06339] c02 N71-13422
Development of attitude control system for vertical takeoff aircraft using reaction nozzles displaced from various axes of aircraft
[NASA-CASE-XAC-08972] c02 N71-20570

VERY HIGH FREQUENCIES
VHF/UHF parasitic probe antenna for spacecraft communication
[NASA-CASE-XKS-09340] c07 N71-24614

VERY LONG BASE INTERFEROMETRY
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c46 N80-14603

VESTS
Lightweight life preserver without fastening devices
[NASA-CASE-XMS-00864] c05 N70-36493

VIBRATION
Three stage motion restraining mechanism for restraining and damping three dimensional vibrational movement of gimballed package during launch of spacecraft
[NASA-CASE-GSC-10306-1] c15 N71-24694
Vibration control of flexible bodies in steady accelerating environment
[NASA-CASE-LAR-10106-1] c15 N71-27169
Method and apparatus for producing concentric hollow spheres
[NASA-CASE-NPO-14596-1] c31 N79-24197

VIBRATION DAMPING
Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626

- Digital filter for reducing jitter in digital control systems
[NASA-CASE-HPO-11088] c08 N71-29034
- Blade vibration damping pins for turbomachinery
[NASA-CASE-XLR-00155] c28 N71-29154
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c33 N80-29583
- VIBRATION EFFECTS**
- Electromagnetic energy detection by thermal sensor with vibrating electrode
[NASA-CASE-XAC-10768] c09 N71-18830
- Development of ultrasonic radiation equipment for removing material from host surface and vacuum apparatus for recovery of material
[NASA-CASE-HPO-11213] c15 N73-20514
- Development of optical system for detecting defective components in rotating machinery with emphasis on bearing assemblies
[NASA-CASE-KSC-10752-1] c15 N73-27407
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-HFS-23447-1] c37 N79-11404
- VIBRATION ISOLATORS**
- Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-XAC-11225] c14 N69-27486
- Miniature vibration isolator utilizing elastic tubing material
[NASA-CASE-XLA-01019] c15 N70-40156
- Vibration damping system operating in low vacuum environment for spacecraft mechanisms
[NASA-CASE-XMS-01620] c23 N71-15673
- Hermetically sealed vibration damper design for use in gimbal assembly of spacecraft inertial guidance system
[NASA-CASE-HSC-10959] c15 N71-26243
- Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
- Vibration isolation system, using coaxial helical compression springs
[NASA-CASE-HPO-11012] c15 N72-11391
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-HFS-21680-1] c18 N74-27397
- Shock absorbing mount for electrical components
[NASA-CASE-HPO-13253-1] c37 N75-18573
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-HSC-12619-2] c27 N79-12221
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c37 N79-28549
- Decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c08 N80-22359
- VIBRATION MEASUREMENT**
- Development of system for measuring damping characteristics of structure or system subjected to random forces or influences
[NASA-CASE-ARC-10154-1] c14 N72-22440
- Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-INP-05882] c35 N75-27329
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c35 N80-14371
- VIBRATION METERS**
- Fiber optic transducers for monitoring and analysis of vibration in aerospace vehicles and onboard equipment
[NASA-CASE-INP-02433] c14 N71-10616
- VIBRATION MODE**
- Function generators for producing complex vibration mode patterns used to identify vibration mode data
[NASA-CASE-LAR-10310-1] c10 N73-20253
- VIBRATION SIMULATORS**
- Equipment for vibration testing of assemblies, components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
- VIBRATION TESTS**
- Electronic detection system for peak acceleration limits in vibrational testing of spacecraft components
[NASA-CASE-HPO-10556] c14 N71-27185
- Fixture for supporting articles during vibration tests comprising integral annular unit
[NASA-CASE-HFS-20523] c14 N72-27412
- Equipment for vibration testing of assemblies, components, and other articles
[NASA-CASE-GSC-11302-1] c14 N73-13416
- Multiaxial vibration device for making vibration tests along orthogonal axes of test specimen
[NASA-CASE-HFS-20242] c14 N73-19421
- VIBRATIONAL SPECTRA**
- Tuned damped vibration absorber for mass vibrating in more than one degree of freedom for use with wind tunnel models
[NASA-CASE-LAR-10083-1] c15 N71-27006
- VIDEO COMMUNICATION**
- Circuitry for generating sync signals in FM communication systems including video information
[NASA-CASE-XNP-10830] c07 N71-11281
- Monitoring circuit design for sampling circuit control and reduction of time-bandwidth in video communication systems
[NASA-CASE-XNP-02791] c07 N71-23026
- Teletypewriter video communication system and apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
- Sampling video compression system
[NASA-CASE-ARC-10984-1] c32 N77-24328
- VIDEO DATA**
- TV camera output signal control system for digital spacecraft communication
[NASA-CASE-XNP-01472] c14 N70-41807
- Transient video signal tape recorder with expanded playback
[NASA-CASE-ARC-10003-1] c09 N71-25866
- Restoration and improvement of demodulated facsimile video signals
[NASA-CASE-GSC-10185-1] c07 N72-12081
- Dual digital video switcher
[NASA-CASE-KSC-10782-1] c33 N75-30431
- VIDEO EQUIPMENT**
- Video signal processing system for sampling video brightness levels
[NASA-CASE-HPO-10140] c07 N71-24742
- Video sync processor with phase locked system
[NASA-CASE-KSC-10002] c10 N71-25865
- Teletypewriter video communication system and apparatus
[NASA-CASE-XNP-06611] c07 N71-26102
- Video signal enhancement of signal component representing brightness of scene element in low contrast
[NASA-CASE-HPO-10343] c07 N71-27341
- Circuitry for high input impedance video processor with high noise immunity
[NASA-CASE-HPO-10199] c09 N72-17156
- Electronic video editor for switching video input signals to common output channel
[NASA-CASE-KSC-10003] c10 N73-13235
- Video tape recorder with scan conversion playback for color television signals
[NASA-CASE-HPO-10166-1] c07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-HPO-10166-2] c35 N76-16391
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c45 N76-17656
- VIDICONS**
- Operation of vidicon tube for scanning spatial charge density pattern
[NASA-CASE-INP-06028] c09 N71-23189
- Device which separates and screens particles of soil samples for vidicon viewing in vacuum and reduced gravity environments
[NASA-CASE-INP-09770-3] c11 N71-27036
- VINYL POLYMERS**
- Method of producing output voltage from photovoltaic cell using poly-N-vinyl carbazole complexed with iodine
[NASA-CASE-HPO-10373] c03 N71-18698
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-HSC-14903-1] c27 N78-32256
- Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-HSC-14903-2] c27 N80-10358
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-HSC-14903-3] c27 N80-24438
- VINYLIDENE**
- Preparation of dicyanoacetylene and vinylidene copolymers using organic compounds

- [NASA-CASE-XNP-03250] c06 N71-23500
- VIRUSES**
- Water system virus detection
[NASA-CASE-MSC-16098-1] c51 N79-10693
- VISCOELASTICITY**
- Automated ball rebound resilience test equipment for determining viscoelastic properties of polymers
[NASA-CASE-ILA-08254] c14 N71-26161
- Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NPO-11387] c14 N73-14429
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c37 N75-18573
- VISCOMETERS**
- Describing instrument capable of measuring true shear viscosity of liquids and viscoelastic materials
[NASA-CASE-XNP-09462] c14 N71-17584
- Development and characteristics of parallel plate viscometer for determination of absolute viscosity of liquids and viscoelastic materials
[NASA-CASE-NPO-11387] c14 N73-14429
- VISCOSITY**
- Low density and low viscosity magnetic propellant for use under zero gravity conditions
[NASA-CASE-ILE-01512] c12 N70-40124
- Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c35 N80-18357
- VISCOUS DAMPING**
- Shock and vibration damping device using temperature sensitive solid amorphous polymers
[NASA-CASE-IAC-11225] c14 N69-27486
- Design and operation of viscous pendulum damper
[NASA-CASE-ILA-02079] c12 N71-16894
- Mercury filled pendulum damper for controlling bending vibration induced by wind effects
[NASA-CASE-LAR-10274-1] c14 N71-17626
- VISIBILITY**
- Controlled visibility device for simulating poor visibility conditions in training pilots in instrument landing and flight procedures
[NASA-CASE-XPE-04147] c11 N71-10748
- High visibility air sea rescue panel
[NASA-CASE-MSC-12564-2] c03 N78-25070
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- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c23 N75-14834
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- Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c54 N75-27759
- VISUAL CONTROL**
- Visual target luminaires for retrofire attitude control
[NASA-CASE-XMS-12158-1] c31 N69-27499
- VISUAL FIELDS**
- Automated visual sensitivity tester for determining visual field sensitivity and blind spot size
[NASA-CASE-ARC-10329-1] c05 N73-26072
- Visual examination apparatus
[US-PATENT-RE-28,921] c52 N76-30793
- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c74 N77-20882
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- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c38 N78-17396
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- High pressure liquid flow sight assembly for wide temperature range applications including cryogenic fluids
[NASA-CASE-ILE-02998] c14 N70-42074
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- Reaction tester for testing reaction to light stimuli
[NASA-CASE-MSC-13604-1] c05 N73-13114
- VOICE COMMUNICATION**
- Position locating system for remote aircraft using voice communication and digital signals
[NASA-CASE-GSC-10087-2] c21 N71-13958
- Earth satellite relay station for frequency multiplexed voice transmission
[NASA-CASE-GSC-10118-1] c07 N71-24621
- Voice operated receiving and transmitting system for use in protective suits
[NASA-CASE-KSC-10164] c07 N71-33108
- Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c32 N74-27612
- Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MPS-22729-1] c32 N76-21366
- Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372
- Satellite personal communications system
[NASA-CASE-NPO-14480-1] c32 N80-20448
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- Digital communication system
[NASA-CASE-MSC-13912-1] c32 N74-30524
- Memory-based frame synchronizer --- for voice data processing in digital communication systems
[NASA-CASE-GSC-12430-1] c32 N80-20453
- VOLATILITY**
- Apparatus for determining volatile condensable material present in polymeric products
[NASA-CASE-XNP-09699] c06 N71-24607
- VOLT-AMPERE CHARACTERISTICS**
- Simulating voltage-current characteristic curves of solar cell panel with different operational parameters
[NASA-CASE-XMS-01554] c10 N71-10578
- The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c33 N79-18193
- VOLTAGE AMPLIFIERS**
- Increasing power conversion efficiency of electronic amplifiers by power supply switching
[NASA-CASE-XMS-00945] c09 N71-10798
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[NASA-CASE-XNP-09768] c09 N71-12516
- RC networks with voltage amplifier, RC input circuit, and positive feedback
[NASA-CASE-ARC-10020] c10 N72-17172
- Wide range analog to digital converter with variable gain amplifier
[NASA-CASE-NPO-11018] c08 N72-21200
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[NASA-CASE-GSC-12347-1] c33 N80-18286
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- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c33 N79-26312
- VOLTAGE CONVERTERS (DC TO DC)**
- Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c33 N74-11049
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[NASA-CASE-NPO-13512-1] c33 N77-10428
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c33 N77-14333
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c33 N77-30365
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[NASA-CASE-LEW-12791-1] c33 N78-32341
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c33 N79-26312
- Buck/boost regulator
[NASA-CASE-GSC-12360-1] c33 N79-27394
- Power converter --- for display devices, lighting equipment
[NASA-CASE-FRC-11014-1] c33 N79-27395
- VOLTAGE GENERATORS**
- Pulsed energy power system for application of combustible gases to turbine controlling ac voltage generator
[NASA-CASE-MSC-13112] c03 N71-11057

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WARNING SYSTEMS

Biotelemetry apparatus with dual voltage generators for implanting in animals
[NASA-CASR-XAC-05706] c05 H71-12342

Transistorized circuit for producing multiple slope voltage sweep
[NASA-CASR-XMS-03542] c09 H71-28926

Inductive-capacitive loops as load insensitive power converters
[NASA-CASR-ERC-10268] c09 H72-25252

Pulse switching for high energy lasers
[NASA-CASR-NPO-14556-1] c36 H79-21336

Driver for solar cell I-V characteristic plots
[NASA-CASR-NPO-14096-1] c44 H80-18551

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Regulated dc to dc converter
[NASA-CASR-IGS-03429] c03 H69-21330

Power control switching circuit using low voltage semiconductor controlled rectifiers for high voltage isolation
[NASA-CASR-XNP-02713] c10 H69-39888

Automatic measuring and recording of gain and zero drift characteristics of electronic amplifier
[NASA-CASR-XMS-05562-1] c09 H69-39986

Automatic control of voltage supply to direct current motor
[NASA-CASR-XMS-04215-1] c09 H69-39987

Design, development, and operating principles of power supply with starting circuit which is independent of voltage regulator
[NASA-CASR-XMS-01991] c09 H71-21449

High voltage divider system for attenuating high voltages to convenient levels suitable for introduction to measuring circuits
[NASA-CASR-XLE-02008] c09 H71-21583

Power supply with overload protection for series stage transistor
[NASA-CASR-XMS-00913] c10 H71-23543

Voltage controlled, variable frequency relaxation oscillator with MOSFET variable current feed
[NASA-CASR-GSC-10022-1] c10 H71-25882

Design and development of buck-boost voltage regulator circuit with additive or subtractive alternating current impressed on variable direct current source voltage
[NASA-CASR-GSC-10735-1] c10 H71-26085

Voltage range selection apparatus for sensing and applying voltages to electronic instruments without loading signal source
[NASA-CASR-XMS-06497] c14 H71-26244

Dissipative voltage regulator system for minimizing heat dissipation
[NASA-CASR-GSC-10891-1] c10 H71-26626

Power point tracker for maintaining optimal output voltage of power source
[NASA-CASR-GSC-10376-1] c14 H71-27407

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[NASA-CASR-NPO-11031] c07 H71-33606

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[NASA-CASR-NPO-11253] c09 H72-17157

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[NASA-CASR-ERC-10268] c09 H72-25252

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[NASA-CASR-BQM-10792-1] c33 H74-11049

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[NASA-CASR-KSC-10736-1] c33 H75-19521

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[NASA-CASR-LAR-11645-1] c02 H77-10001

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[NASA-CASR-LAR-11868-2] c08 H79-14108

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[NASA-CASR-LAR-10489-1] c31 H74-18124

W

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[NASA-CASR-XLE-05230-2] c14 H73-13417

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[NASA-CASR-XLE-00164] c15 H70-36411

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Alarm system design for monitoring one or more relay circuits
[NASA-CASR-XMS-10984-1] c10 H71-19417

Unsaturating magnetic core transformer design with warning signal for electrical power processing equipment
[NASA-CASR-ERC-10125] c09 H71-24893

Electrical failure detector in solid rocket propellant motor insulation against thermal degradation by fuel grain
[NASA-CASR-XNP-03968] c14 H71-27186

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[NASA-CASR-GSC-11095-1] c14 H72-10375

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[NASA-CASE-MSC-10960-1] c03 N71-24718
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[NASA-CASE-ARC-10643-1] c25 N75-12087
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[NASA-CASE-NPO-13847-2] c85 N79-17747
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[NASA-CASE-XMS-01546] c14 N70-40233
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[NASA-CASE-MPS-11132] c15 N71-17649
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[NASA-CASE-XNP-09770-3] c11 N71-27036
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[NASA-CASE-XNP-09902] c15 N72-11387
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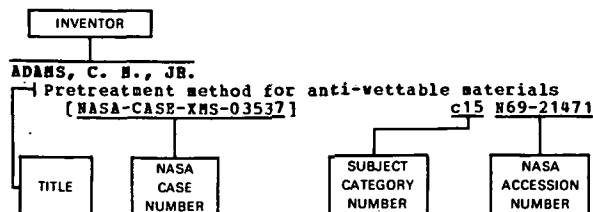
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[NASA-CASE-ARC-11031-1] c54 N78-22720

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[NASA-CASE-LEW-11267-1] c17 N73-32414

Method of protecting the surface of a substrate
[NASA-CASE-LEW-11696-1] c37 N75-13261

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[NASA-CASE-LEW-11696-2] c26 N75-19408

Fused silicide coatings containing discrete particles for protecting niobium alloys
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GRISWOLD, B. H., JR.
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[NASA-CASE-LEW-12419-1] c07 N77-14025

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Magnetic suspension and pointing system
[NASA-CASE-LAB-11889-2] c37 N78-27424

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Rim inertial measuring system
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Infrared detectors		Dual wavelength scanning Doppler velocimeter	
[NASA-CASE-LAR-10728-1]	c14 N73-12445	[NASA-CASE-ARC-10637-1]	c35 N75-16783
Electronically scanned pressure sensor module		Pseudo-backscatter laser Doppler velocimeter	
with in SITU calibration capability		employing antiparallel-reflector in the	
[NASA-CASE-LAR-12230-1]	c35 N79-14347	forward direction	
GROSS, W. J.		[NASA-CASE-ARC-10970-1]	c36 N77-25501
Method of fabricating an object with a thin wall		GUPTA, A.	
having a precisely shaped slit		Double-beam optical method and apparatus for	
[NASA-CASE-LAR-10409-1]	c31 N74-21059	measuring thermal diffusivity and other	
GROTH, W. G.		molecular dynamic processes in utilizing the	
Optical inspection apparatus Patent		transient thermal lens effect	
[NASA-CASE-INP-00462]	c14 N70-34298	[NASA-CASE-NPO-14657-1]	c74 N79-17683
GROVE, C. B.		GUTTLER, C. A.	
Lightning current waveform measuring system		Ablation sensor	
[NASA-CASE-KSC-11018-1]	c33 N79-10337	[NASA-CASE-XLA-01781]	c14 N69-39975
GROVES, W. O.		Pressurized cell micrometeoroid detector Patent	
Method for the preparation of inorganic single		[NASA-CASE-XLA-00936]	c14 N71-14996
crystal and polycrystalline electronic materials		Pual measurement ablation sensor	
[NASA-CASE-XLE-02545-1]	c76 N79-21910	[NASA-CASE-LAR-10105-1]	c34 N74-15652
GRUBBS, T. H.		GUSSOW, S. S.	
Discrete local altitude sensing device Patent		Pseudo-noise test set for communication system	
[NASA-CASE-XMS-03792]	c14 N70-41812	evaluation	
Line cutter Patent		[NASA-CASE-NPS-22671-1]	c35 N75-21582
[NASA-CASE-XMS-04072]	c15 N70-42017	Method of and means for testing a tape	
Tension measurement device Patent		record/playback system	
[NASA-CASE-XMS-04545]	c15 N71-22878	[NASA-CASE-NPS-22671-2]	c35 N77-17426
Winch having cable position and load indicators.		GUSTAFSON, G. L.	
Patent		Apparatus for measuring thermal conductivity	
[NASA-CASE-MSC-12052-1]	c15 N71-24599	Patent	
GRUBER, C. L.		[NASA-CASE-IGS-01052]	c14 N71-15992
Method and apparatus for optical modulating a		GUSTINCIC, J. J.	
light signal Patent		Microwave limb sounder	
[NASA-CASE-GSC-10216-1]	c23 N71-26722	[NASA-CASE-NPO-14544-1]	c74 N79-34014
GRUBER, R. P.		GUTHALL, R. L.	
Closed Loop solar array-ion thruster system with		Star scanner	
power control circuitry		[NASA-CASE-GSC-11569-1]	c89 N74-30886
[NASA-CASE-LEW-12780-1]	c20 N79-20179	GUY, J. T., SR.	
Self-reconfiguring solar cell system		Disk pack cleaning table Patent Application	
[NASA-CASE-LEW-12586-1]	c44 N80-14472	[NASA-CASE-LAR-10590-1]	c15 N70-26819
GRUNBAUM, B. W.		GYORGAK, C. A.	
Automatic multiple-sample applicator and		Process for applying a protective coating for	
electrophoresis apparatus		salt bath brazing Patent	
[NASA-CASE-ARC-10991-1]	c25 N78-14104	[NASA-CASE-XLE-00046]	c15 N70-33311
Microelectrophoretic apparatus and process		Protective device for machine and metalworking	
[NASA-CASE-ARC-11121-1]	c25 N79-14169	tools Patent	
GRUNBERGER, P. J.		[NASA-CASE-XLE-01092]	c15 N71-22797
High speed, glitch-free digital to analog		Extrusion die for refractory metals	
converter		[NASA-CASE-XLE-06773]	c15 N71-23817
[NASA-CASE-GSC-12319-1]	c60 N79-32852		
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stabilizing sample surface potential			
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[NASA-CASE-INP-01058]	c09 N71-12540		
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current load			
[NASA-CASE-NPO-11023]	c09 N72-17155		
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playback system having constant intensity			
laser beam control			
[NASA-CASE-NPO-11317-2]	c36 N74-13205		
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cancellation			
[NASA-CASE-NPO-11954-1]	c35 N78-29421		
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playback system			
[NASA-CASE-NPO-10872-1]	c35 N79-16246		
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characteristics for Curie-point switching			
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system Patent			
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coefficient and resistivity of materials			
[NASA-CASE-NPO-11749]	c14 N73-28486		
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polymethylmethacrylate			
[NASA-CASE-NPO-13867-1]	c27 N78-14164		
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[NASA-CASE-IAC-10019]	c15 N71-23809		
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[NASA-CASE-MFS-23363-1] c35 N78-32396
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Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c76 N80-18951
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c76 N80-32246

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[NASA-CASE-NPO-13044-1] c35 N74-15094

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[NASA-CASE-NPO-11850-1] c32 N74-12912
Vehicle locating system utilizing AM
broadcasting station carriers
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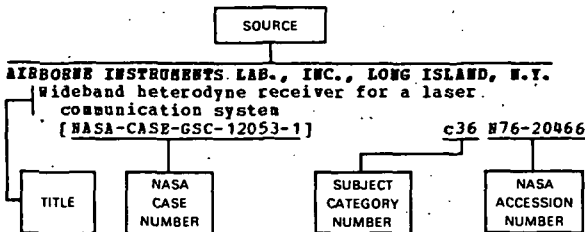
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BECKON, DICKINSON AND CO., RUTHERFORD, N. J.

Vacuum probe surface sampler

[NASA-CASE-LAR-10623-1] c14 N73-30395

BELL AEROSPACE CO., BUFFALO, N. Y.

Modulator for tone and binary signals

[NASA-CASE-GSC-11743-1] c32 N75-24981

Correlation type phase detector

[NASA-CASE-GSC-11744-1] c33 N75-26243

BELL AEROSYSTEMS CO., BUFFALO, N. Y.

Lunar landing flight research vehicle Patent

[NASA-CASE-IPR-00929] c31 N70-34966

Flexibly connected support and skin

[NASA-CASE-XLA-01027] c31 N71-24035

Injection head for delivering liquid fuel and oxidizers

[NASA-CASE-NPO-10046] c28 N72-17843

Flight control system

[NASA-CASE-MSC-13397-1] c21 N72-25595

BELL AND HOWELL CO., CHICAGO, ILL.

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge

[NASA-CASE-ARC-11057-1] c27 N78-31233

Process for producing a well-adhered durable optical coating on an optical plastic substrate

[NASA-CASE-ARC-11039-1] c74 N78-32854

BELLCONM, INC., WASHINGTON, D. C.

Physical correction filter for improving the optical quality of an image

[NASA-CASE-HQN-10542-1] c74 N75-25706

BENDIX CORP., ANN ARBOR, MICH.

Circuit breaker utilizing magnetic latching relays Patent

[NASA-CASE-MSC-11277] c09 N71-29008

BENDIX CORP., COLUMBIA, MD.

Microwave dichroic plate

[NASA-CASE-GSC-12171-1] c33 N79-28416

BENDIX CORP., DAVENPORT, IOWA.

Dual stage check valve

[NASA-CASE-MSC-13587-1] c15 N73-30459

BENDIX CORP., DETROIT, MICH.

Deformable vehicle wheel Patent

[NASA-CASE-MPS-20400] c31 N71-18611

BENDIX CORP., HUNTSVILLE, ALA.

Multi axes vibration fixtures

[NASA-CASE-MPS-20242] c14 N73-19421

BENDIX CORP., KENNEDY SPACE CENTER, FLA.

Color perception tester

[NASA-CASE-KSC-10278] c05 N72-16015

BENDIX CORP., TETERBORO, N. J.

Evacuation valve

[NASA-CASE-LAR-10061-1] c15 N72-31483

BENDIX RESEARCH LABS., SOUTHFIELD, MICH.

Image tube

[NASA-CASE-GSC-11602-1] c33 N74-21850

BIONETICS CORP., HAMPTON, VA.

Small conductive particle sensor

[NASA-CASE-LAR-12552-1] c35 N80-11400

BORING AEROSPACE CO., HOUSTON, TEX.

Fluid sample collection and distribution system

[NASA-CASE-MSC-16841-1] c34 N79-24285

Method and automated apparatus for detecting coliform organisms

[NASA-CASE-MSC-16777-1] c51 N80-27067

BORING AEROSPACE CO., SEATTLE, WASH.

Method and apparatus for fabricating improved solar cell modules

[NASA-CASE-NPO-14416-1] c44 N79-18446

BORING CO., COCOA BEACH, FLA.

Positive contact resistance soldering unit

[NASA-CASE-KSC-10242] c15 N72-23497

Variable resistance constant tension and lubrication device

[NASA-CASE-KSC-10723-1] c37 N75-13265

BORING CO., HOUSTON, TEX.

Method and apparatus for eliminating luminol interference material

[NASA-CASE-MSC-16260-1] c51 N80-16714

BORING CO., HUNTSVILLE, ALA.

Hydrogen fire blink detector

[NASA-CASE-MPS-15063] c14 N72-25412

Borescope with variable angle scope

[NASA-CASE-MPS-15162] c14 N72-32452

Guide for a typewriter

[NASA-CASE-MPS-15218-1] c37 N77-19457

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[NASA-CASE-MSC-14180-1] c52 N76-14757

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 [NASA-CASE-PRC-10053] c14 N70-35587
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 [NASA-CASE-NPO-10271] c17 N71-16393
 Strain sensor for high temperatures Patent
 [NASA-CASE-XNP-09205] c14 N71-17657
 Method of hydrostatically extruding refractory materials
 [NASA-CASE-NPO-10811] c15 N71-34425
 Forming tool for ribbon or wire
 [NASA-CASE-XLA-05966] c15 N72-12408
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 [NASA-CASE-NPO-10401] c03 N72-20033
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 [NASA-CASE-NPO-10812] c15 N73-13464
 Radiation sensitive solid state switch
 [NASA-CASE-NPO-10817-1] c08 N73-30135
 Miniature hydraulic actuator
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 Aircraft design concept
 [NASA-CASE-LAR-11852-1] c05 N77-15027
 Plasma cleaning device
 [NASA-CASE-MPS-22906-1] c75 N78-27913
 Calibrating pressure switch
 [NASA-CASE-XNP-04494-1] c33 N79-33392
BORING COMMERCIAL AIRPLANE CO., SEATTLE, WASH.
 Fuselage structure using advanced technology metal matrix fiber reinforced composites
 [NASA-CASE-LAR-11688-1] c05 N78-18045
 Improved tire/wheel concept
 [NASA-CASE-LAR-11695-2] c37 N80-18402
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 Data transfer system Patent
 [NASA-CASE-NPO-12107] c08 N71-27255
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 [NASA-CASE-XNP-04966] c14 N71-17658
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 Thruster maintenance system Patent
 [NASA-CASE-MPS-20325] c28 N71-27095
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 [NASA-CASE-MPS-20619] c28 N72-11708

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 Temperature regulation circuit Patent
 [NASA-CASE-XNP-02792] c14 N71-28958
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 [NASA-CASE-XNP-02982] c31 N70-41855
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 [NASA-CASE-ARC-11121-1] c25 N79-14169
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 Continuous plasma light source

[NASA-CASE-XNP-04167-2] c25 N72-24753
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CARBORUNDUM CO., NIAGARA FALLS, N. Y.
 Ceramic fiber insulating material and methods of producing same
 [NASA-CASE-MSC-14795-1] c27 N76-15314
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 [NASA-CASE-MSC-14795-2] c24 N78-25138
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 Electromagnetic wave energy converter
 [NASA-CASE-GSC-11394-1] c09 N73-32109
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 [NASA-CASE-XLA-00189] c33 N70-36846
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 [NASA-CASE-XNP-01083] c15 N71-22723
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 Ceramic insulation for radiant heating environments and method of preparing the same Patent
 [NASA-CASE-MPS-14253] c33 N71-24858
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 [NASA-CASE-XNP-04208] c33 N71-29051
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 [NASA-CASE-XNP-04132] c15 N69-27502
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 [NASA-CASE-MSC-18172-1] c26 N80-19237
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 Power responsive overload sensing circuit Patent
 [NASA-CASE-GSC-10667-1] c10 N71-33129
 Chassis unit insert tightening-extract device
 [NASA-CASE-XNS-01077-1] c37 N79-33467
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 [NASA-CASE-MSC-12389] c33 N71-29052
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 [NASA-CASE-GSC-10786-1] c10 N72-28241
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 Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
 [NASA-CASE-LEW-12465-1] c25 N78-25148
COMPREHENSIVE DESIGNERS, INC., SHERMAN OAKS, CALIF.
 Vehicle for use in planetary exploration
 [NASA-CASE-NPO-11366] c11 N73-26238
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 Test fixture for pellet-like electrical elements
 [NASA-CASE-XNP-06032] c09 N69-21926
 Support structure for irradiated elements Patent
 [NASA-CASE-XNP-06031] c15 N71-15606
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 [NASA-CASE-XNP-06234] c10 N71-27137
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 Oceanic wave measurement system
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 Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
 [NASA-CASE-IGS-01881] c09 N70-40123
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 [NASA-CASE-MPS-20830] c15 N71-30028

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[NASA-CASE-ILB-103477-1] c28 N71-20330

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communication system
[NASA-CASE-GSC-12053-1] c32 N77-28346

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[NASA-CASE-LAR-11027-1] c35 N74-18088

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[NASA-CASE-HSC-12640-1] c74 N76-31998

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Nose cone mounted heat resistant antenna Patent
[NASA-CASE-HMS-04312] c07 N71-22984

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Recoverable single stage spacecraft booster Patent
[NASA-CASE-IMP-01973] c31 N70-41588

Switching circuit employing regeneratively
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[NASA-CASE-IMP-02654] c10 N70-42032

Split nut separation system Patent
[NASA-CASE-IMP-06914] c15 N71-21489

Artificial gravity spin deployment system Patent
[NASA-CASE-IMP-02595] c31 N71-21881

Portable superclean air column device Patent
[NASA-CASE-IMP-03212] c15 N71-22721

Energy absorption device Patent
[NASA-CASE-IMP-01848] c15 N71-28959

Collapsible pistons
[NASA-CASE-HSC-13789-1] c11 N73-32152

DUKE UNIV., DURHAM, N. C.
Regulated dc-to-dc converter for voltage step-up
or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c33 N74-11049

DUNLOP ELECTRON TUBES, CLIFTON, N. J.
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c09 N72-20206

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ECHO SCIENCE CORP., MOUNTAIN VIEW, CALIF.
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element and system incorporating the same
[NASA-CASE-IMP-02899-1] c33 N79-21265

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[NASA-CASE-IMP-01263-2] c15 N71-26312

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[NASA-CASE-IGS-00740] c07 N71-23098

ELECTRIC STORAGE BATTERY CO., RALEIGH, N.C.
Electric battery and method for operating same
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[NASA-CASE-IGS-01674] c03 N71-29129

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wedge shaped configuration
[NASA-CASE-NPO-11806-1] c44 N74-19693

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apertured electrodes Patent
[NASA-CASE-IMP-03332] c09 N71-10618

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Method of producing refractory bodies having
controlled porosity Patent
[NASA-CASE-LEW-10393-1] c17 N71-15468

Soil particles separator, collector and viewer
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[NASA-CASE-IMP-09770] c15 N71-20440

Particle detection apparatus including a
ballistic pendulum Patent
[NASA-CASE-HMS-04201] c14 N71-22990

Polarity sensitive circuit Patent
[NASA-CASE-IMP-00952] c10 N71-23271

Ion engine casing construction and method of
making same Patent

[NASA-CASE-IMP-06942] c28 N71-23293

Material handling device Patent
[NASA-CASE-IMP-09770-3] c11 N71-27036

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[NASA-CASE-NFS-20096] c14 N71-30026

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[NASA-CASE-GSC-11018-1] c31 N73-30829

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[NASA-CASE-HSC-18422-1] c37 N80-14400

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Method for attaching a fused-quartz mirror to a
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[NASA-CASE-NFS-23405-1] c26 N77-29260

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[NASA-CASE-HSC-10810-1] c33 N76-19339

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[NASA-CASE-HMS-05894-1] c15 N69-21924

Portable environmental control system Patent
[NASA-CASE-HMS-09632-1] c05 N71-11203

Dual latching solenoid valve Patent
[NASA-CASE-HMS-05890] c09 N71-23191

Water management system and an electrolytic cell
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[NASA-CASE-HSC-10960-1] c03 N71-24718

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c32 N72-25877

Process for separation of dissolved hydrogen
from water by use of palladium and process for
coating palladium with palladium black
[NASA-CASE-HSC-13335-1] c06 N72-31140

Flexible joint for pressurizable garment
[NASA-CASE-HSC-11072] c54 N74-32546

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with an argon gas filter between the light
source and monochromator Patent
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[NASA-CASE-INP-00710]	c15 N71-10778	Electrical spot terminal assembly Patent	
Solar battery with interconnecting means for plural cells Patent		[NASA-CASE-NPO-10034]	c15 N71-17685
[NASA-CASE-INP-06506]	c03 N71-11050	Sealed separable connection Patent	
Sealed battery gas manifold construction Patent		[NASA-CASE-NPO-10064]	c15 N71-17693
[NASA-CASE-INP-03378]	c03 N71-11051	Incremental motion drive system Patent	
Solar cell submodule Patent		[NASA-CASE-INP-08897]	c15 N71-17694
[NASA-CASE-INP-05821]	c03 N71-11056	Microbalance including crystal oscillators for measuring contaminants in a gas system Patent	
Reflectometer for receiver input impedance match measurement Patent		[NASA-CASE-NPO-10144]	c14 N71-17701
[NASA-CASE-INP-10843]	c07 N71-11267	Apparatus and method for protecting a photographic device Patent	
Means for generating a sync signal in an FM communication system Patent		[NASA-CASE-NPO-10174]	c14 N71-18465
[NASA-CASE-INP-10830]	c07 N71-11281	Ranging system Patent	
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[NASA-CASE-NPO-10539]	c07 N71-11285	High impact pressure regulator Patent	
Thermionic diode switch Patent		[NASA-CASE-NPO-10175]	c14 N71-18625
[NASA-CASE-NPO-10404]	c03 N71-12255	Magnetic core current steering commutator Patent	
Anti-backlash circuit for hydraulic drive system Patent		[NASA-CASE-NPO-10201]	c08 N71-18694
[NASA-CASE-INP-01020]	c03 N71-12260	Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent	
Binary number sorter Patent		[NASA-CASE-NPO-10373]	c03 N71-18698
[NASA-CASE-NPO-10112]	c08 N71-12502	A dc-coupled noninverting one-shot Patent	
Linear three-tap feedback shift register Patent		[NASA-CASE-INP-09450]	c10 N71-18723
[NASA-CASE-NPO-10351]	c08 N71-12503	Automatic fault correction system for parallel signal channels Patent	
Binary sequence detector Patent		[NASA-CASE-INP-03263]	c09 N71-18843
[NASA-CASE-INP-05415]	c08 N71-12505	Data compression processor Patent	
Data compression system with a minimum time delay unit Patent		[NASA-CASE-NPO-10068]	c08 N71-19288
[NASA-CASE-INP-08832]	c08 N71-12506	Tape guidance system and apparatus for the provision thereof Patent	
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[NASA-CASE-INP-08836]	c09 N71-12515	High voltage transistor circuit Patent	
Operational integrator Patent		[NASA-CASE-INP-06937]	c09 N71-19516
[NASA-CASE-NPO-10230]	c09 N71-12520	Solar cell matrix Patent	
Starting circuit for vapor lamps and the like Patent		[NASA-CASE-NPO-10821]	c03 N71-19545
[NASA-CASE-INP-01058]	c09 N71-12540	Electrical switching device Patent	
Matched thermistors for microwave power meters Patent		[NASA-CASE-NPO-10037]	c09 N71-19610
[NASA-CASE-NPO-10348]	c10 N71-12554	Drift compensation circuit for analog to digital converter Patent	
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent		[NASA-CASE-INP-04780]	c08 N71-19687
[NASA-CASE-INP-00384]	c09 N71-13530	Roll-up solar array Patent	
Automatic thermal switch Patent		[NASA-CASE-NPO-10188]	c03 N71-20273
[NASA-CASE-INP-03796]	c23 N71-15467	Method and device for determining battery state of charge Patent	
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[NASA-CASE-INP-04161]	c14 N71-15599	Soil particles separator, collector and viewer Patent	
Anti-glare improvement for optical imaging systems Patent		[NASA-CASE-INP-09770]	c15 N71-20440
[NASA-CASE-NPO-10337]	c14 N71-15604	Transmission line thermal short Patent	
Fluid flow restrictor Patent		[NASA-CASE-INP-09775]	c09 N71-20445
[NASA-CASE-NPO-10117]	c15 N71-15608	Synchronous servo loop control system Patent	
High temperature lens construction Patent		[NASA-CASE-INP-03744]	c10 N71-20448
[NASA-CASE-INP-04111]	c14 N71-15622	Processing for producing a sterilized instrument Patent	
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[NASA-CASE-INP-03459-2]	c18 N71-15688	Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent	
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[NASA-CASE-INP-00920]	c15 N71-15906	Elimination of frequency shift in a multiplex communication system Patent	
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[NASA-CASE-INP-01057]	c07 N71-15907	High power-high voltage waterload Patent	
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[NASA-CASE-INP-00731]	c11 N71-15960	Coaxial cable connector Patent	
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent		[NASA-CASE-INP-04732]	c09 N71-20851
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[NASA-CASE-INP-08883]	c23 N71-16101	Miniature stress transducer Patent	
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[NASA-CASE-INP-09462]	c14 N71-17584	Light position locating system Patent	
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[NASA-CASE-INP-01153]	c32 N71-17645	Electron bombardment ion engine Patent	
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Irradiance measuring device [NASA-CASE-NPO-11493]	c14 N73-12447	Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator [NASA-CASE-NPO-03623]	c09 N73-28084
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Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system [NASA-CASE-NPO-11302-1]	c07 N73-13149	Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer [NASA-CASE-NPO-05231]	c14 N73-28491
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Dual purpose momentum wheels for spacecraft with magnetic recording [NASA-CASE-NPO-11481]	c21 N73-13644	Automatic carrier acquisition system [NASA-CASE-NPO-11628-1]	c07 N73-30113
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Rotary actuator [NASA-CASE-NPO-10680]	c31 N73-14855	Soil penetrometer [NASA-CASE-NPO-05530]	c14 N73-32321
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Data-aided carrier tracking loops [NASA-CASE-NPO-11282]	c10 N73-16205		
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Burrowing apparatus			
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Method and apparatus for a single channel			
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dependent output frequency			
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[NASA-CASE-NPO-13171-1]	c32	N74-11000	
Image data rate converter having a drum with a			
fixed head and a rotatable head			
[NASA-CASE-NPO-11659-1]	c35	N74-11283	
Monitoring atmospheric pollutants with a			
heterodyne radiometer transmitter-receiver			
[NASA-CASE-NPO-11919-1]	c35	N74-11284	
Digital second-order phase-locked loop			
[NASA-CASE-NPO-11905-1]	c33	N74-12887	
Automatic vehicle location system			
[NASA-CASE-NPO-11850-1]	c32	N74-12912	
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playback system having constant intensity			
laser beam control			
[NASA-CASE-NPO-11317-2]	c36	N74-13205	
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[NASA-CASE-NPO-11432-2]	c35	N74-15090	
Temperature compensated digital inertial sensor			
[NASA-CASE-NPO-13044-1]	c35	N74-15094	
Compact hydrogenator			
[NASA-CASE-NPO-11682-1]	c35	N74-15127	
Short range laser obstacle detector			
[NASA-CASE-NPO-11856-1]	c36	N74-15145	
System for stabilizing cable phase delay			
utilizing a coaxial cable under pressure			
[NASA-CASE-NPO-13138-1]	c33	N74-17927	
Storage battery comprising negative plates of a			
wedge shaped configuration			
[NASA-CASE-NPO-11806-1]	c44	N74-19693	
Gated compressor, distortionless signal limiter			
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[NASA-CASE-NPO-11861-1]	c36	N74-20009	
Decision feedback loop for tracking a polyphase			
modulated carrier			
[NASA-CASE-NPO-13103-1]	c32	N74-20811	
Optically actuated two position mechanical mover			
[NASA-CASE-NPO-13105-1]	c37	N74-21060	
Thin film gauge			
[NASA-CASE-NPO-10617-1]	c35	N74-22095	
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[NASA-CASE-NPO-13081-1]	c33	N74-22814	
Single reflector interference spectrometer and			
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[NASA-CASE-NPO-11932-1]	c35	N74-23040	
Scanning nozzle plating system			
[NASA-CASE-NPO-11758-1]	c31	N74-23065	
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Rock sampling			
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[NASA-CASE-NPO-13065-1]	c52	N74-26625	
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[NASA-CASE-NPO-13112-1]	c73	N74-26767	
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[NASA-CASE-NPO-11793-1]	c28	N74-27425	
Coherent receiver employing nonlinear coherence			
detection for carrier tracking			
[NASA-CASE-NPO-11921-1]	c32	N74-30523	
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[NASA-CASE-NPO-11623-1]	c71	N74-31148	
Apparatus for forming drive belts			
[NASA-CASE-NPO-13205-1]	c31	N74-32917	
Tool for use in lifting pin supported objects			
[NASA-CASE-NPO-13157-1]	c37	N74-32918	
Preparing oxidizer coated metal fuel particles			
[NASA-CASE-NPO-11975-1]	c28	N74-33209	
Geneva mechanism			
[NASA-CASE-NPO-13281-1]	c37	N75-13266	
Method of producing a storage bulb for an atomic			
hydrogen maser			
[NASA-CASE-NPO-13050-1]	c36	N75-15029	
Combined pressure regulator and shutoff valve			
[NASA-CASE-NPO-13201-1]	c37	N75-15050	
Simultaneous acquisition of tracking data from			
two stations			
[NASA-CASE-NPO-13292-1]	c32	N75-15854	
Shock absorbing mount for electrical components			
[NASA-CASE-NPO-13253-1]	c37	N75-18573	
System for generating timing and control signals			
[NASA-CASE-NPO-13125-1]	c33	N75-19519	
Motor run-up system			
[NASA-CASE-NPO-13374-1]	c33	N75-19524	
Deep trap, laser activated image converting system			
[NASA-CASE-NPO-13131-1]	c36	N75-19652	
Multitarget sequential sputtering apparatus			
[NASA-CASE-NPO-13345-1]	c37	N75-19684	
Wide angle sun sensor			
[NASA-CASE-NPO-13327-1]	c35	N75-23910	
Material suspension within an acoustically			
excited resonant chamber			
[NASA-CASE-NPO-13263-1]	c12	N75-24774	
Heat operated cryogenic electrical generator			
[NASA-CASE-NPO-13303-1]	c20	N75-24837	
System for interference signal nulling by			
polarization adjustment			
[NASA-CASE-NPO-13140-1]	c32	N75-24982	
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therefor			
[NASA-CASE-NPO-10764-2]	c35	N75-25122	
Servo-controlled intravital microscope system			
[NASA-CASE-NPO-13214-1]	c35	N75-25123	
Vehicle locating system utilizing AM			
broadcasting station carriers			
[NASA-CASE-NPO-13217-1]	c32	N75-26194	
Asynchronous, multiplexing, single line			
transmission and recovery data system			
[NASA-CASE-NPO-13321-1]	c32	N75-26195	
Fluorescence detector for monitoring atmospheric			
pollutants			
[NASA-CASE-NPO-13231-1]	c45	N75-27585	
Cooperative multiaxis sensor for teleoperation			
of article manipulating apparatus			
[NASA-CASE-NPO-13386-1]	c54	N75-27758	
Heat sterilizable patient ventilator			
[NASA-CASE-NPO-13313-1]	c54	N75-27761	
Refrigerated coaxial coupling			
[NASA-CASE-NPO-13504-1]	c33	N75-30430	
Electric power generation system directory from			
laser power			
[NASA-CASE-NPO-13308-1]	c36	N75-30524	
Subminiature insertable force transducer			
[NASA-CASE-NPO-13423-1]	c33	N75-31329	
Symmetrical odd-modulus frequency divider			
[NASA-CASE-NPO-13426-1]	c33	N75-31330	
Stored charge transistor			
[NASA-CASE-NPO-11156-2]	c33	N75-31331	
Doped Josephson tunneling junction for use in a			
sensitive IR detector			
[NASA-CASE-NPO-13348-1]	c33	N75-31332	
Acoustically controlled distributed feedback laser			
[NASA-CASE-NPO-13175-1]	c36	N75-31427	
Inert gas, metallic vapor laser			
[NASA-CASE-NPO-13449-1]	c36	N75-32441	
Helium refrigerator			
[NASA-CASE-NPO-13435-1]	c31	N76-14284	
Nonlinear nonsingular feedback shift registers			
[NASA-CASE-NPO-13451-1]	c33	N76-14373	
Strain gage mounting assembly			
[NASA-CASE-NPO-13170-1]	c35	N76-14430	
Forward-scatter polarimeter for determining the			
gaseous depolarization factor in the presence			
of polluting polydispersed particles			
[NASA-CASE-NPO-13756-1]	c35	N76-14434	
Thermostatically controlled non-tracking type			
solar energy concentrator			
[NASA-CASE-NPO-13497-1]	c44	N76-14602	
Multi-computer multiple data path hardware			
exchange system			
[NASA-CASE-NPO-13422-1]	c60	N76-14818	
Cermet composition and method of fabrication			
[NASA-CASE-NPO-13120-1]	c27	N76-15311	
Dichroic plate			
[NASA-CASE-NPO-13506-1]	c35	N76-15435	
Magnetometer using superconducting rotating body			
[NASA-CASE-NPO-13388-1]	c35	N76-16390	
Scan converting video tape recorder			
[NASA-CASE-NPO-10166-2]	c35	N76-16391	
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[NASA-CASE-NPO-13342-1]	c37	N76-16446	

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c25 N76-18245
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c33 N76-18345
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c35 N76-18401
- Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c36 N76-18427
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c36 N76-18428
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c37 N76-18457
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c44 N76-18641
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c44 N76-18642
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c44 N76-18643
- Priority interrupt system
[NASA-CASE-NPO-13067-1] c60 N76-18800
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c33 N76-19338
- Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c37 N76-20480
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c76 N76-20994
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c45 N76-21742
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c60 N76-21914
- Wind sensor
[NASA-CASE-NPO-13462-1] c35 N76-24524
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c36 N76-24553
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c36 N76-29575
- Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c37 N76-29590
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c44 N76-29700
- Solar-powered pump
[NASA-CASE-NPO-13567-1] c44 N76-29701
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c44 N76-29704
- Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c52 N76-29895
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c52 N76-29896
- Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c32 N76-31372
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c35 N76-31490
- Reflected-wave maser
[NASA-CASE-NPO-13490-1] c36 N76-31512
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c37 N76-31524
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c44 N76-31666
- Furlable antenna
[NASA-CASE-NPO-13553-1] c33 N76-32457
- Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c09 N77-10071
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c31 N77-10229
- The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c33 N77-10428
- Ion and electron detector for use in an ICH spectrometer
[NASA-CASE-NPO-13479-1] c35 N77-10492
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c44 N77-10636
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c32 N77-12240
- Computer interface system
[NASA-CASE-NPO-13428-1] c60 N77-12721
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c27 N77-13217
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c33 N77-13315
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c35 N77-14406
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c35 N77-14409
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c35 N77-14411
- Improved nozzle for use with abrasive and/or corrosive materials
[NASA-CASE-NPO-13823-1] c37 N77-17466
- Nuclear thermionic converter
[NASA-CASE-NPO-13121-1] c73 N77-18891
- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c32 N77-20289
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c33 N77-21314
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c33 N77-21315
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c33 N77-21316
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c35 N77-21392
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c35 N77-21393
- Uniform variable light source
[NASA-CASE-NPO-11429-1] c74 N77-21941
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c33 N77-22386
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c37 N77-22479
- Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c37 N77-22480
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c74 N77-22951
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c36 N77-26477
- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c71 N77-26919
- Penetrometer
[NASA-CASE-NPO-11103-1] c35 N77-27367
- Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c74 N77-28933
- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c27 N77-30236
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c33 N77-30365
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c27 N77-31308
- Combustion engine
[NASA-CASE-NPO-13671-1] c37 N77-31497
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c25 N77-32255
- Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c32 N77-32342
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c35 N77-32455
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c44 N77-32580
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c44 N77-32581
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c44 N77-32583
- Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c33 N78-10377
- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c35 N78-10429
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens

[NASA-CASE-NPO-13731-1]	c39	N78-10493	Magneto-optic detector system with noise cancellation	[NASA-CASE-NPO-11954-1]	c35	N78-29421
Portable linear-focused solar thermal energy collecting system			Nitramine propellants	[NASA-CASE-NPO-14103-1]	c28	N78-31255
[NASA-CASE-NPO-13734-1]	c44	N78-10554	Reflex feed system for dual frequency antenna with frequency cutoff means	[NASA-CASE-NPO-14022-1]	c32	N78-31321
Acoustic energy shaping			Solar pond	[NASA-CASE-NPO-13581-2]	c44	N78-31525
[NASA-CASE-NPO-13802-1]	c71	N78-10837	Non-tracking solar energy collector system	[NASA-CASE-NPO-13813-1]	c44	N78-31526
High voltage, high current Schottky barrier solar cell			Coal desulfurization process	[NASA-CASE-NPO-13937-1]	c44	N78-31527
[NASA-CASE-NPO-13482-1]	c44	N78-13526	Solid propellant motor	[NASA-CASE-NPO-11458A]	c20	N78-32179
Durable antistatic coating for polymethylmethacrylate			Coal desulfurization	[NASA-CASE-NPO-14272-1]	c25	N78-33164
[NASA-CASE-NPO-13867-1]	c27	N78-14164	Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil	[NASA-CASE-NPO-08835-1]	c27	N78-33228
Ultra stable frequency distribution system			Hydrogen-fueled engine	[NASA-CASE-NPO-13763-1]	c44	N78-33526
[NASA-CASE-NPO-13836-1]	c32	N78-15323	Plural output optometric sample cell and analysis system	[NASA-CASE-NPO-10233-1]	c74	N78-33913
Selective image area control of X-ray film exposure density			Portable electrophoresis apparatus using minimum electrolyte	[NASA-CASE-NPO-13274-1]	c25	N79-10163
[NASA-CASE-NPO-13808-1]	c35	N78-15461	Stark cell optoacoustic detection of constituent gases in sample	[NASA-CASE-NPO-14143-1]	c25	N79-10169
Motion restraining device			Automatic communication signal monitoring system	[NASA-CASE-NPO-13941-1]	c32	N79-10262
[NASA-CASE-NPO-13619-1]	c37	N78-16369	Surface roughness measuring system	[NASA-CASE-NPO-13862-1]	c35	N79-10391
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof			Vehicular impact absorption system	[NASA-CASE-NPO-14014-1]	c37	N79-10420
[NASA-CASE-NPO-10557]	c27	N78-17214	Dual membrane hollow fiber fuel cell and method of operating same	[NASA-CASE-NPO-13732-1]	c44	N79-10513
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement			Combustor	[NASA-CASE-NPO-13958-1]	c25	N79-11151
[NASA-CASE-NPO-13764-1]	c27	N78-17215	Surfactant-assisted liquefaction of particulate carbonaceous substances	[NASA-CASE-NPO-13904-1]	c25	N79-11152
Purging means and method for Xenon arc lamps			Electroexplosive device	[NASA-CASE-NPO-13858-1]	c28	N79-11231
[NASA-CASE-NPO-11978]	c31	N78-17238	Space-charge-limited solid-state triode	[NASA-CASE-NPO-13064-1]	c33	N79-11314
Pressure transducer			Plasma igniter for internal combustion engine	[NASA-CASE-NPO-13828-1]	c37	N79-11405
[NASA-CASE-NPO-11150]	c35	N78-17359	Non-tracking solar energy collector system	[NASA-CASE-NPO-13817-1]	c44	N79-11471
A speed control device for a heavy duty shaft			Method of controlling defect orientation in silicon crystal ribbon growth	[NASA-CASE-NPO-13918-1]	c76	N79-11920
[NASA-CASE-NPO-14170]	c37	N78-17391	An improved suspension system for a wheel rolling on a flat track	[NASA-CASE-NPO-14395-1]	c37	N79-12446
Cross correlation anomaly detection system			Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells	[NASA-CASE-NPO-14100-1]	c44	N79-12541
[NASA-CASE-NPO-13283]	c38	N78-17395	Automated clinical system for chromosome analysis	[NASA-CASE-NPO-13913-1]	c52	N79-12694
Automatic visual inspection system for microelectronics			Conical scan tracking system employing a large antenna	[NASA-CASE-NPO-14009-1]	c32	N79-13214
[NASA-CASE-NPO-13282]	c38	N78-17396	Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6	[NASA-CASE-NPO-13993-1]	c72	N79-13826
Low cost solar energy collection system			High temperature resistant cermet and ceramic compositions	[NASA-CASE-NPO-13690-2]	c27	N79-14213
[NASA-CASE-NPO-13579-1]	c44	N78-17460	Inhibited solid propellant composition containing beryllium hydride	[NASA-CASE-NPO-10866-1]	c28	N79-14228
Differential optoacoustic absorption detector			Digital demodulator-correlator	[NASA-CASE-NPO-13982-1]	c32	N79-14267
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Flame retardant formulations and products
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 [NASA-CASE-MSC-14065-1] c32 N74-26654

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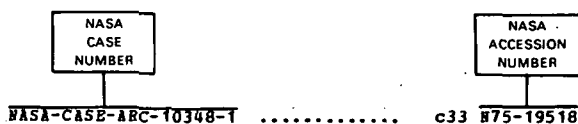
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US-PATENT-3,360,980	C14	N71-20741	US-PATENT-3,389,017	C15	N71-23022
US-PATENT-3,360,988	C09	N71-20816	US-PATENT-3,389,260	C14	N71-23269
US-PATENT-3,361,045	C15	N71-21060	US-PATENT-3,389,346	C10	N71-28859
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US-PATENT-3,361,985	C10	N71-20852	US-PATENT-3,390,023	C26	N75-29236
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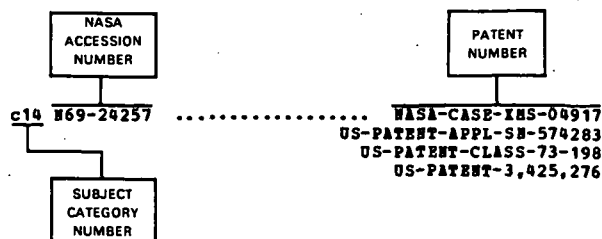
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c35 N77-32456	NASA-CASE-GSC-12143-1		US-PATENT-CLASS-431-352
	US-PATENT-APPL-SN-743249		US-PATENT-4,052,144
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	US-PATENT-CLASS-250-288		US-PATENT-APPL-SN-685027
	US-PATENT-4,046,012		US-PATENT-CLASS-204-292
c36 N77-32478	NASA-CASE-LEW-12164-1		US-PATENT-CLASS-210-63R
	US-PATENT-APPL-SN-511334		US-PATENT-CLASS-210-71
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	US-PATENT-APPL-SN-641784	c33 N78-10375	NASA-CASE-MSC-14916-1
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